What is SCORM?

SCORM: Sharable Content Object Reference Model-a collection of standards for web-based learning.

Why should I use SCORM?

SCORM is a really helpful way for anyone involved in online training.

Content can be created one time and used in many different systems and situations without modification and it will display as were. This plug-and-play functionality can be powerful within an organization but even more so across organizations.

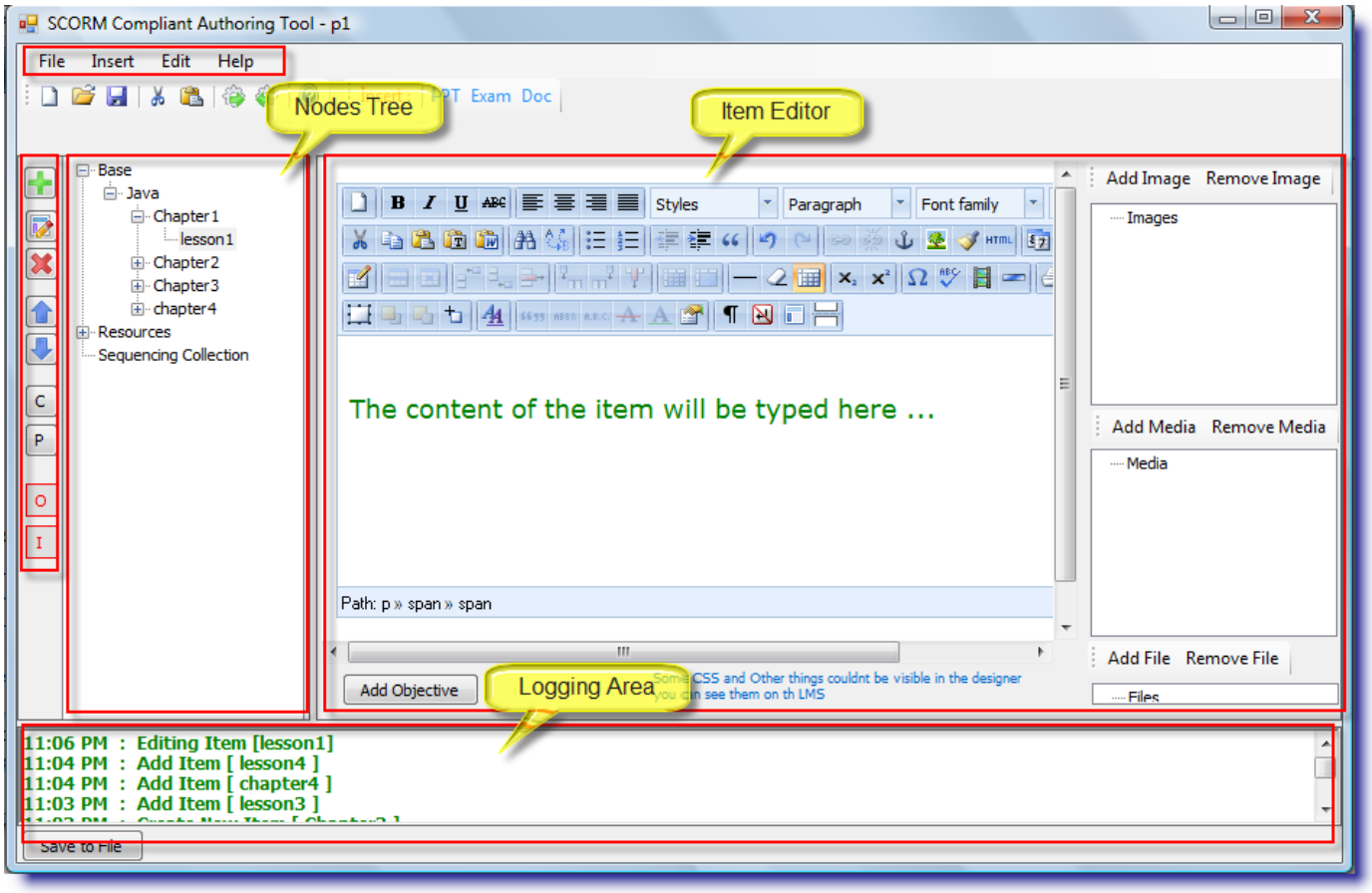
Content can be sold and delivered to the user more quickly, more robustly, and at a lower price.

What is SCORM Authoring tool?

It is a program used to create e-courses "online training course" in easy way, i.e. it is tool to make the deal with SCORM standard easy, so the instructor does not need to know all specification of the standard, and it will prevent him from dealing with XML , HTML , JavaScript files.

Program outline

Look at the following figure:

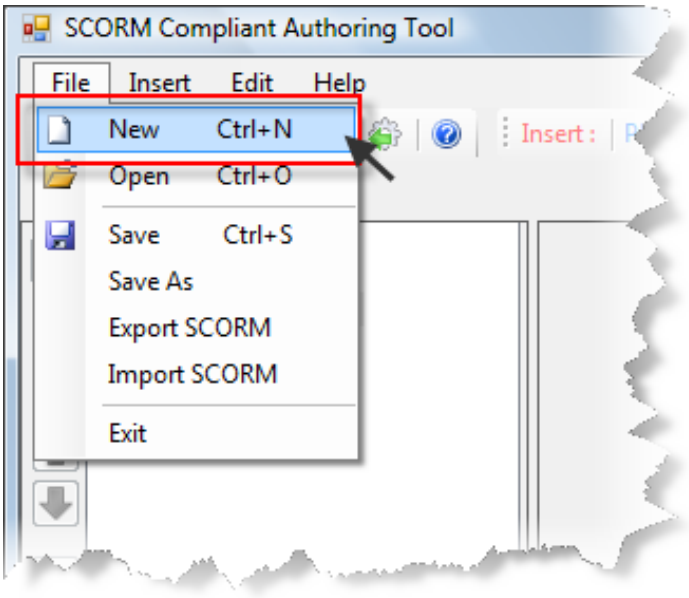


Create a new project

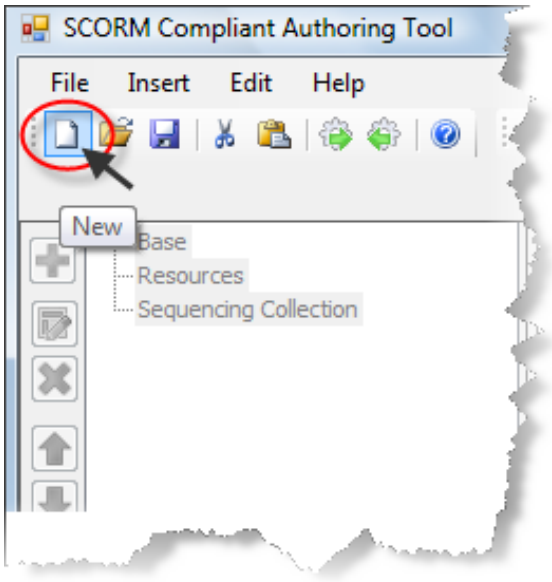
In order to create course using our authoring tool you have to create a new project or to import package that was created before.

In order to create a new project you should:

1- Clicks on New button



or

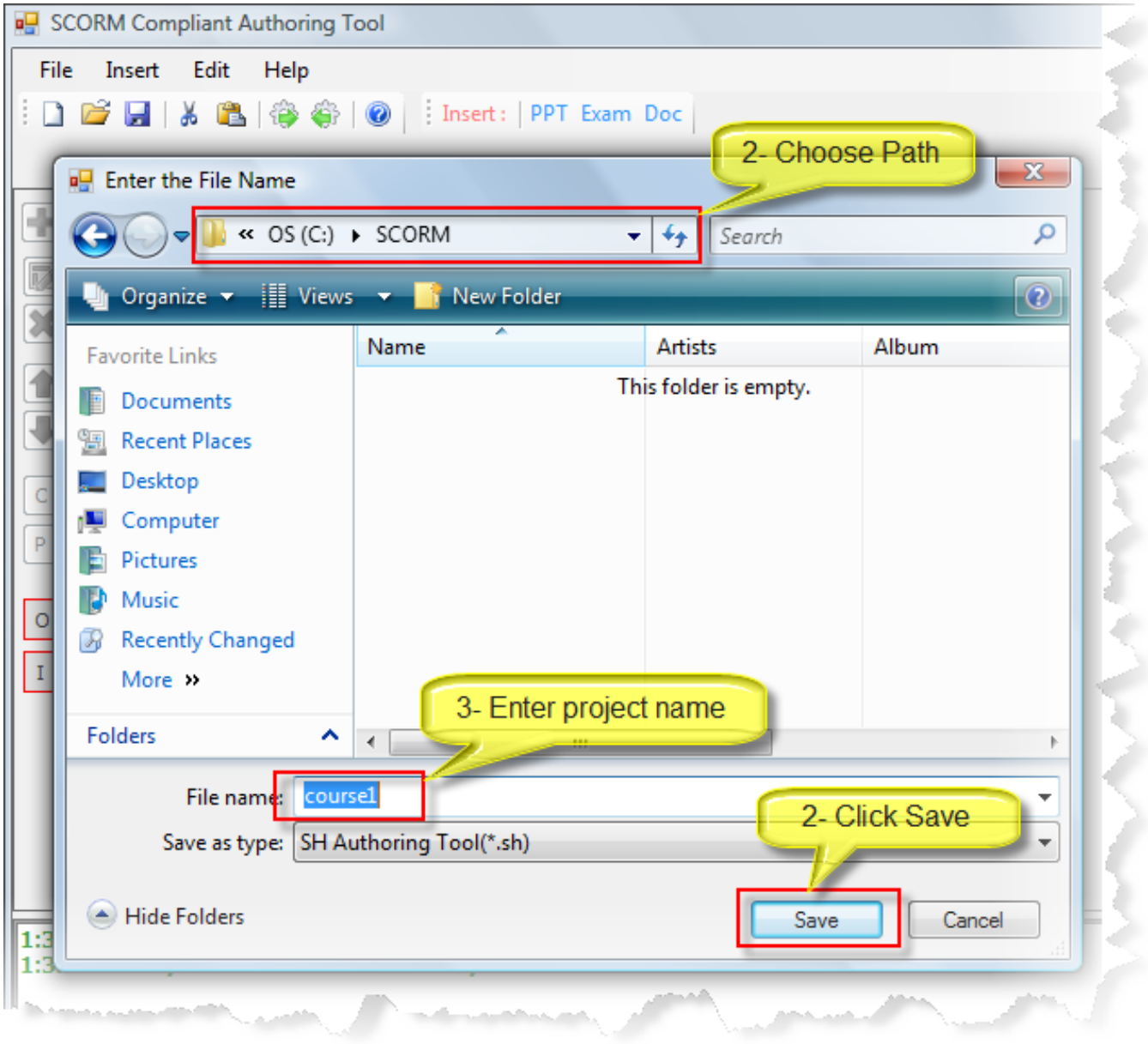


2- Select destination path to save project there .

3- Enter file name .

4- Click Save to finish creation of project .

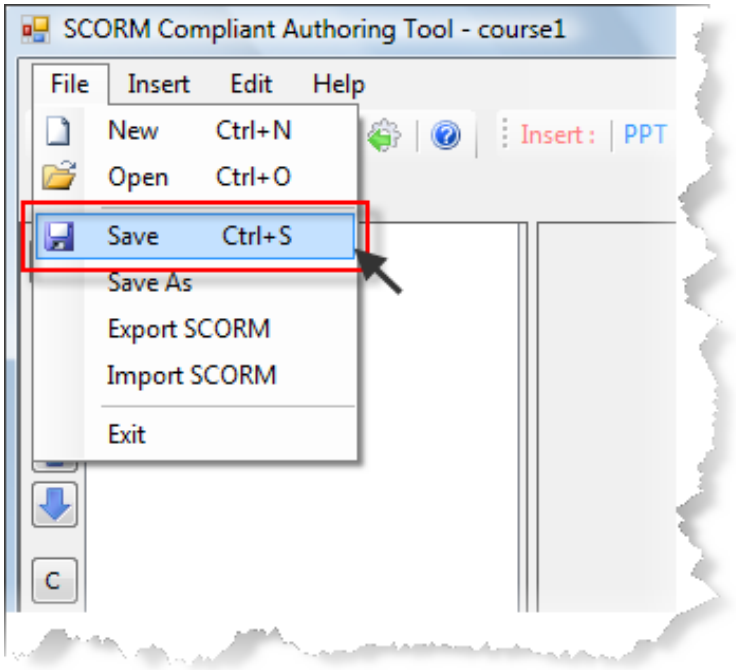
The following figure will illustrate the previous steps.



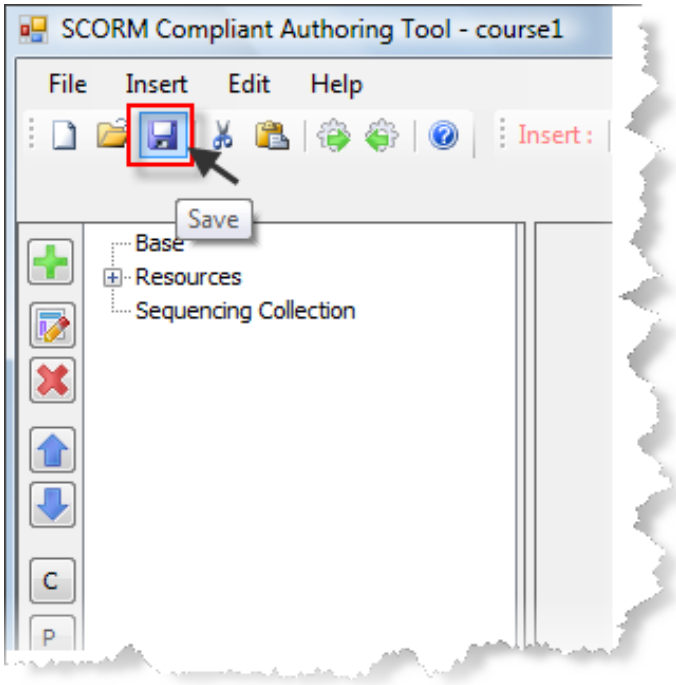
Save Project

To save opened project there is to approaches to do that.

1- Click Save



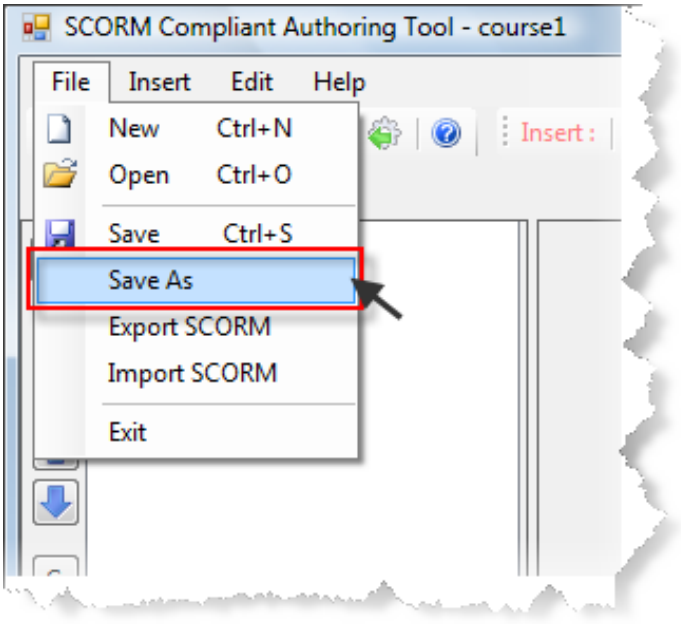
or



2- Save As

i-Click Save As

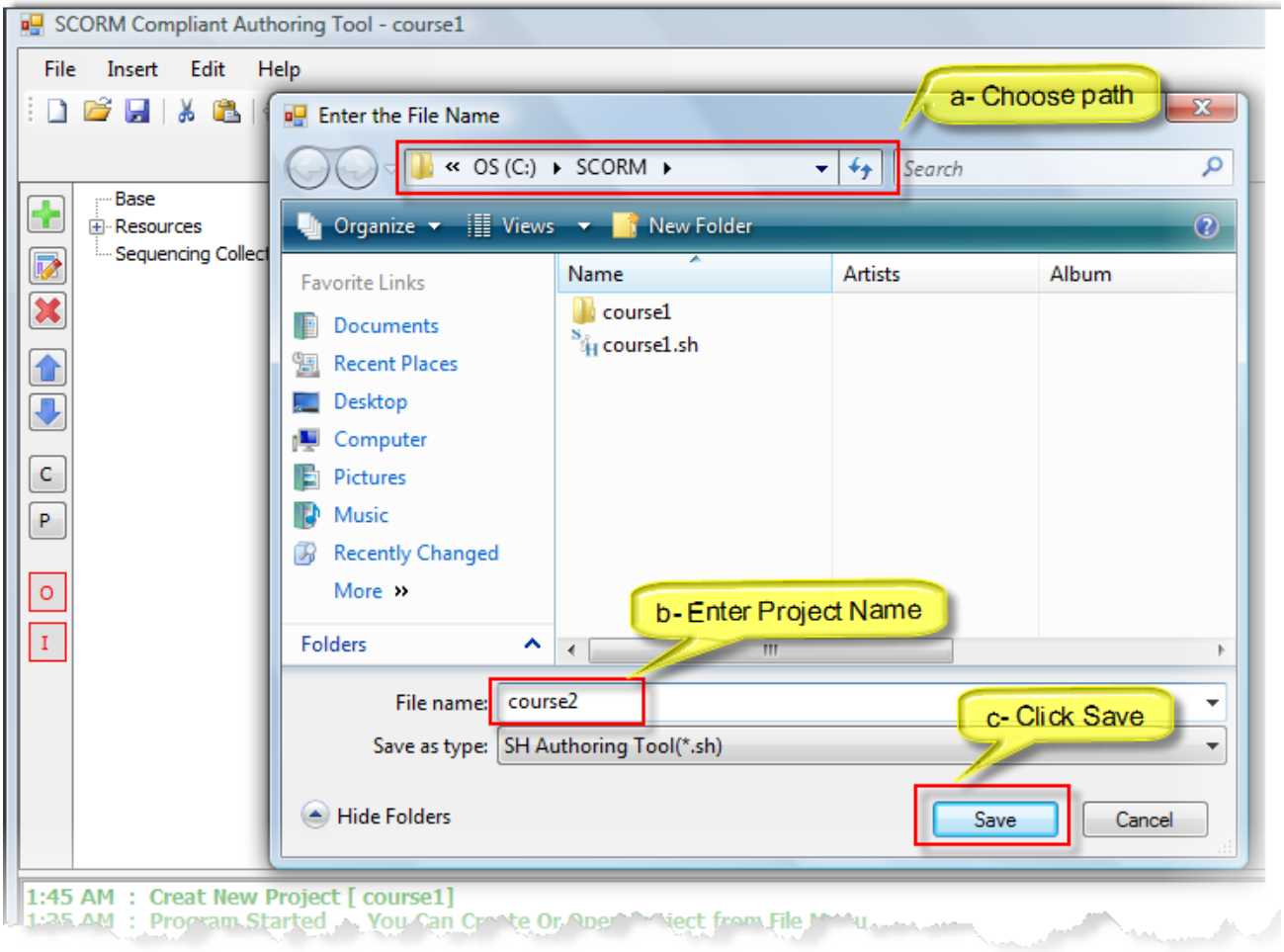
Look at the following figure



ii- After Click Save As the Save as window is displayed .

a- Determine destination folder to save project there.
b- Enter a new name for the projec.
c- Click on Save button.

* The following figure illustrates the previous steps

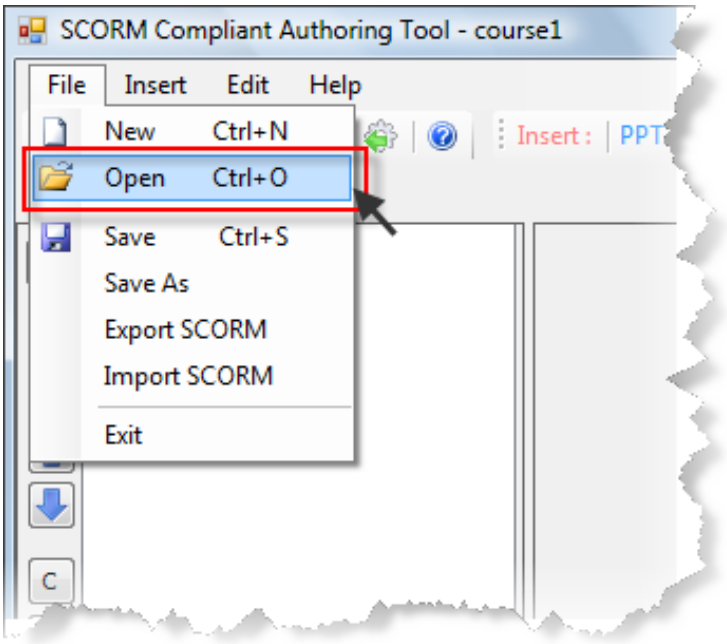

SCORM Compliant Authoring Tool - course1
File
Insert
Edit
Help
Base
Resources
Sequencing Collect
Enter the File Name
a- Choose path
« OS (C:) ▸ SCORM ▸
Search
Organize
Views
New Folder
Favorite Links
Documents
Recent Places
Desktop
Computer
Pictures
Music
Recently Changed
More »
Folders
Name
Artists
Album
course1
course1.sh
b- Enter Project Name
File name: course2
Save as type: SH Authoring Tool(*.sh)
c- Click Save
Hide Folders
Save
Cancel
1:45 AM : Creat New Project [course1]

Open Project

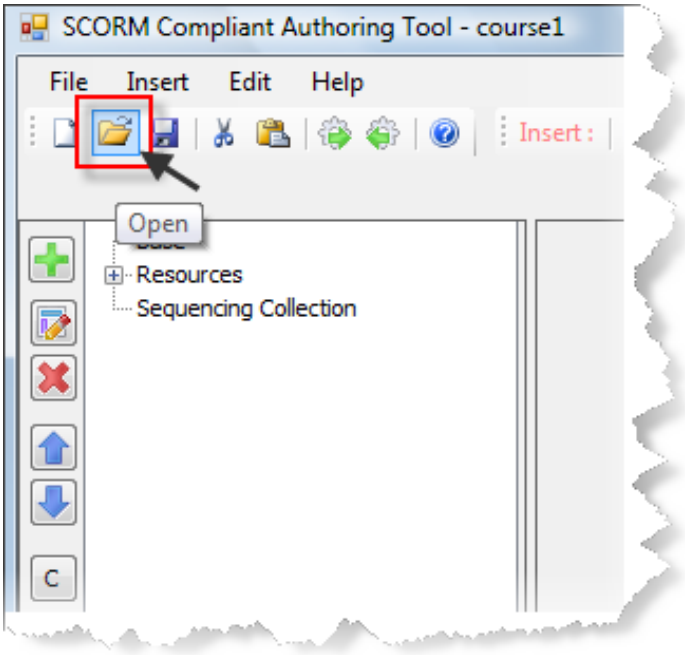
You can open project that you have been saved before using one of the following methods:

1- Click Open

Look at the following figures:

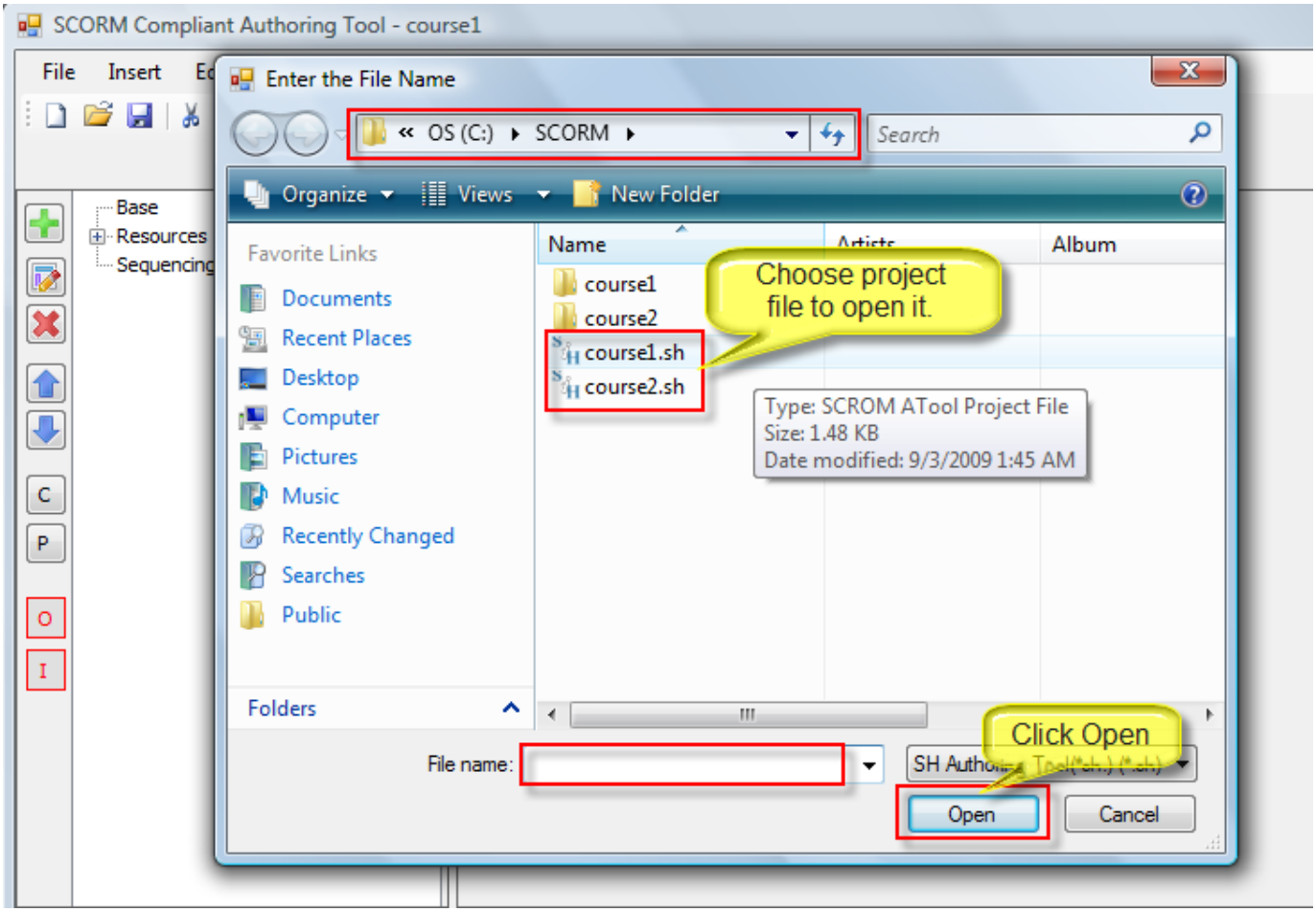


or



2- Choose project file to open

The following figure illustrates this step



Note : The extension of SCORM 2004 Authoring tool is *.*sh* [file must ended with *.sh].

Add Item

First what do we mean by Item?

What is the learning activity?
Learning activity it is a collection of activities exist to deliver some information, and it is consist from two parts web content and tracking info.

By arranging item display in the activity tree we modify the hierarchy (chapters, lessons, slide, exam, and pages) of the course, this will give instructor full control to construct course in the way that he wants.

Item can be chapter, lesson, slide, exam as we will see in the tutorials.

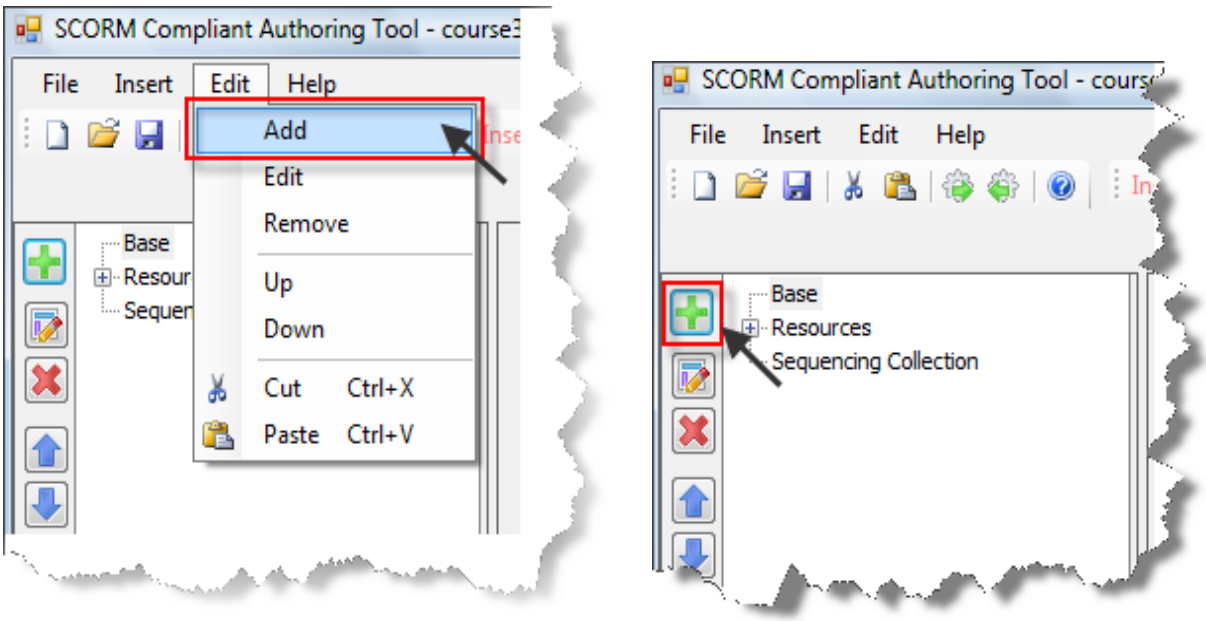
Note: the first added item is the course.

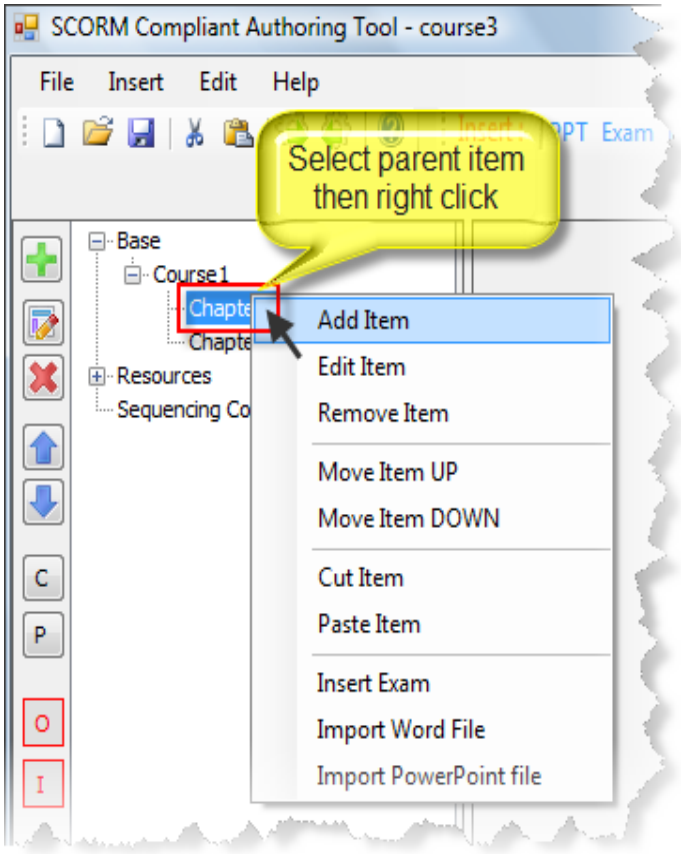
In order to add item you should

1- Choose the parent of the item (parent of the item must be item without resources)

2- Click *Add* item:

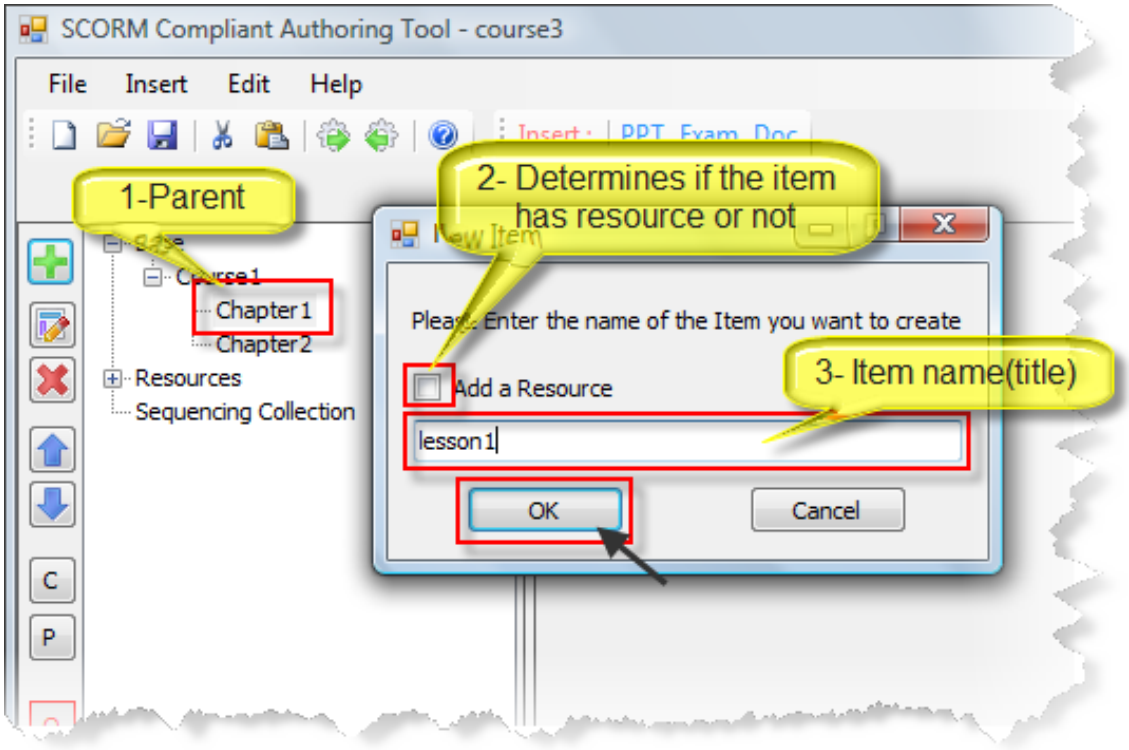
You can click Add item using one of the following methods





3- Enter Item Name and determine if the item will have recourse or not.

After clicking Add this window will appear -look at the following figure:



As we see there is three important annotations:

1- Parent item: we must select item to be parent for the new item.
2- Check Box: this checkbox will determines if the new item will have resource (contains web content i.e. HTML code)
if the Add a Resource checkbox is checked the item will have resource else it will not.
3- Text field: this text field will contain the name of the item (title of the item).

4- Click *OK* to add item.

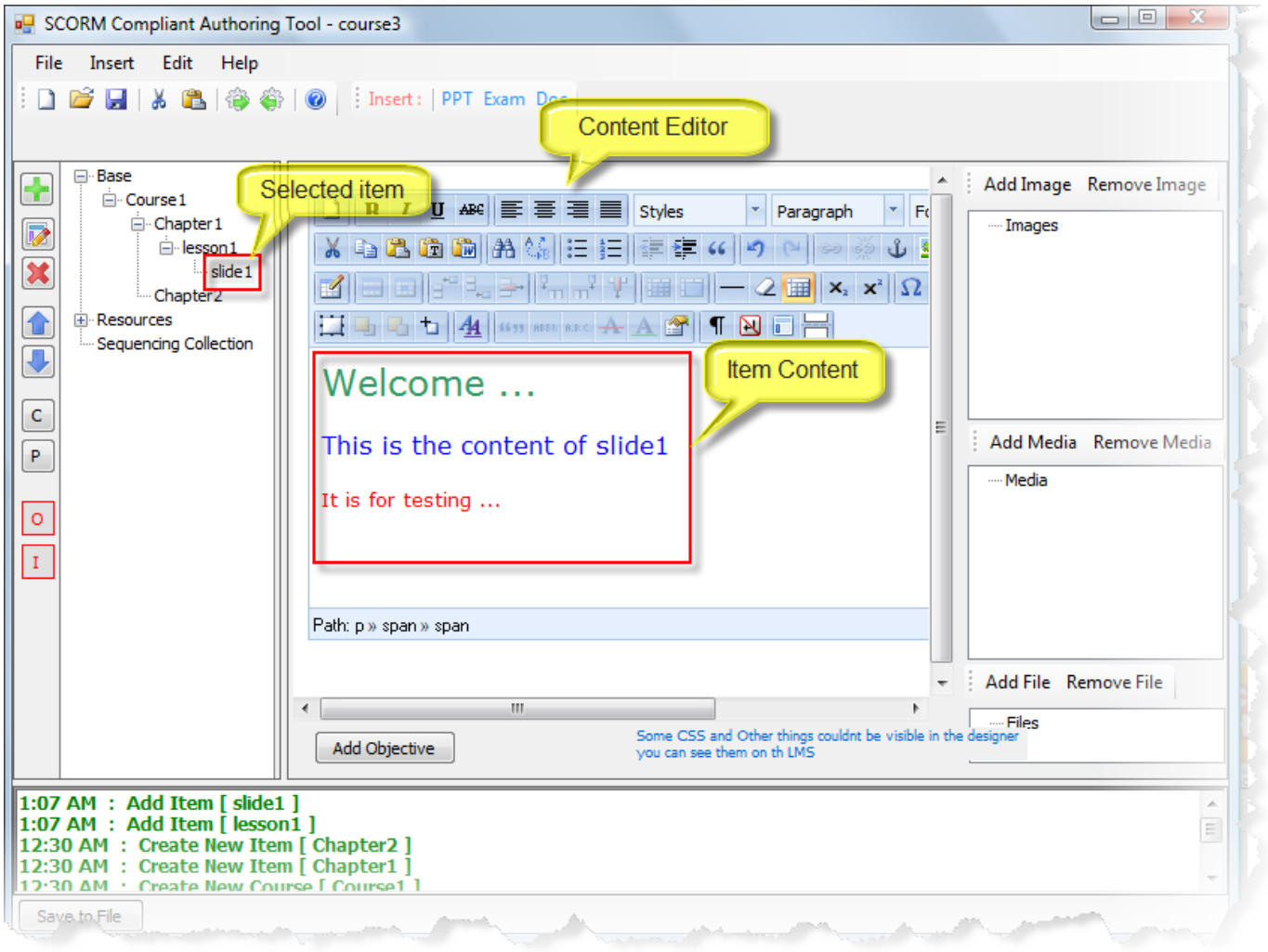
Edit Item

As we mentioned before item consists of learning contents (web content) and settings, so we need to learn how to modify each one of them.

1- Edit Item Content

To modify the web content of the item like editing text images , applying some effects and other this by click on the item after select item graphical user editor will be displayed with the web cc item the editor will display only for the items that had resources.

Look at the following figure



Using HTML editor that shown in previous figure you can edit the content of item

i- Edit Text : you can do this only by entering text inside the editor and you can change the a

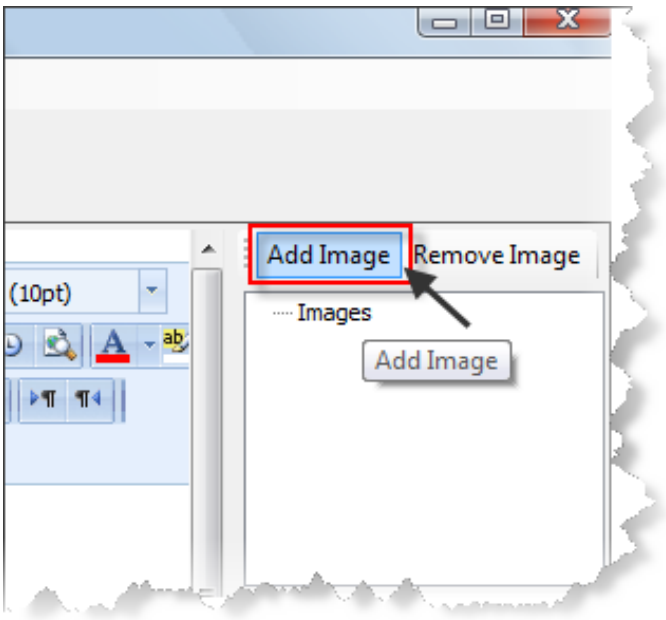
that text .

ii- Add images :

In order to add image for the item content you must pass through the following steps

1-*Add image* to images list on right side of the editor
you can do that by clicking on Add Image button .

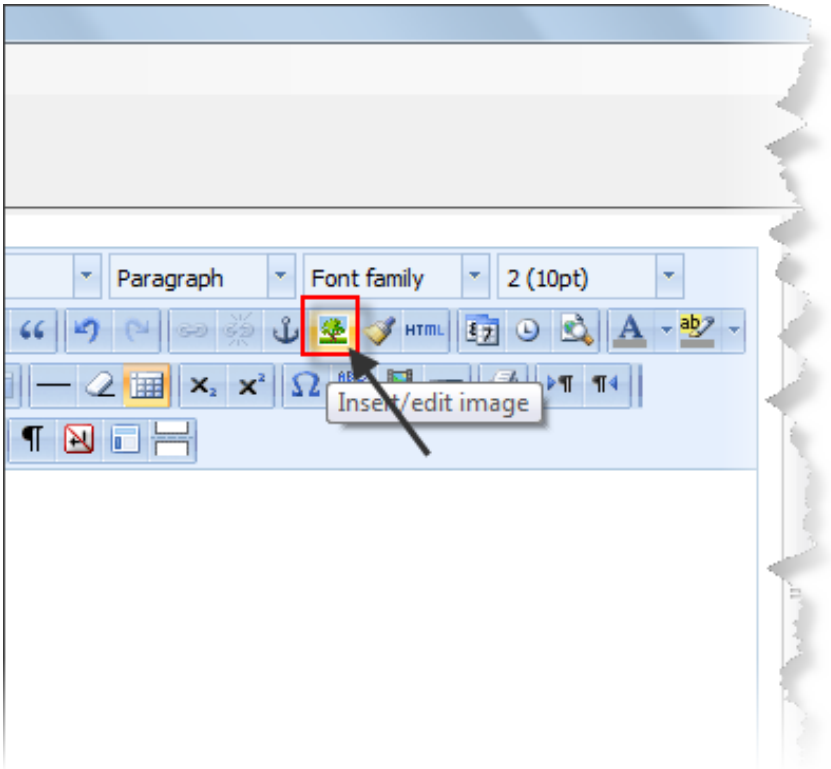
Look at the following figure



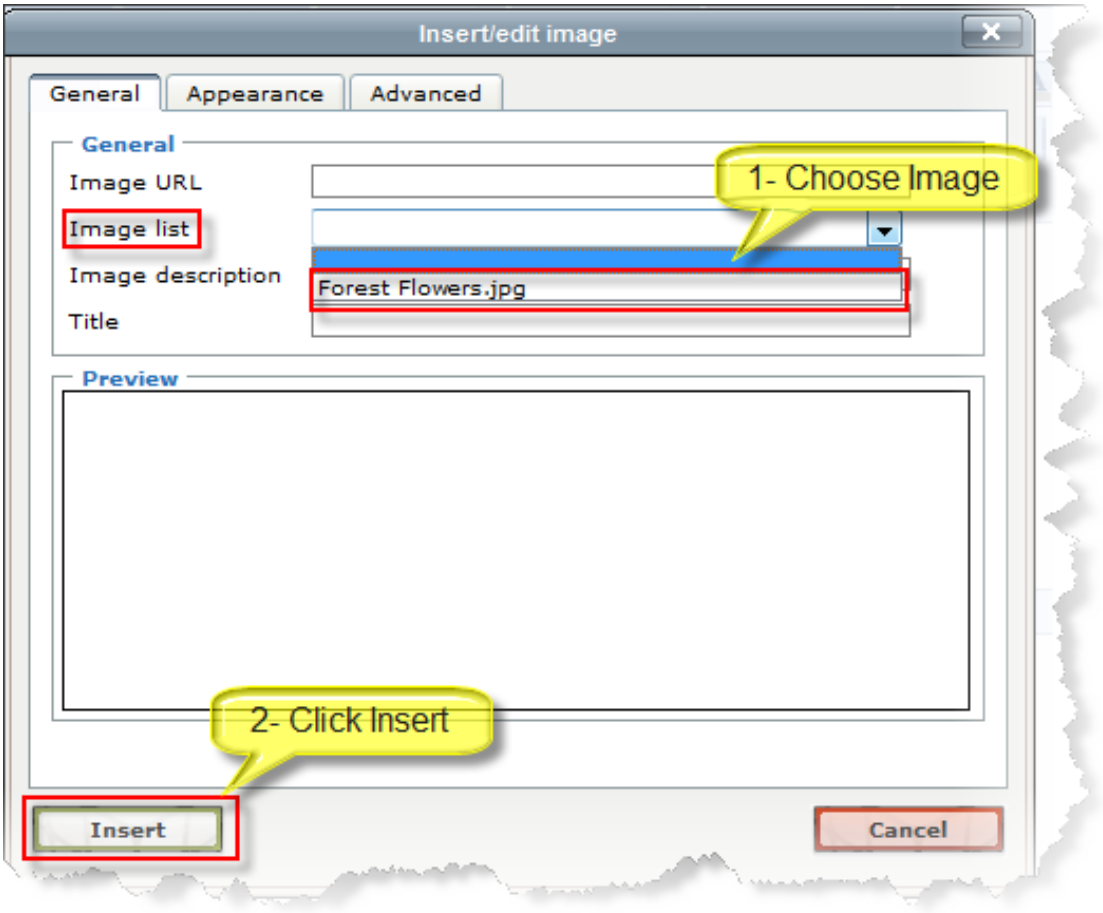
After clicks add Browse file dialog will appear this will help you to determine wh
you want to add it to the item
look at the following figure:

2-*Add image* to item: this will be done using insert/edit image button

Look at the following figures:



After click on Insert/edit image the following window will appear:



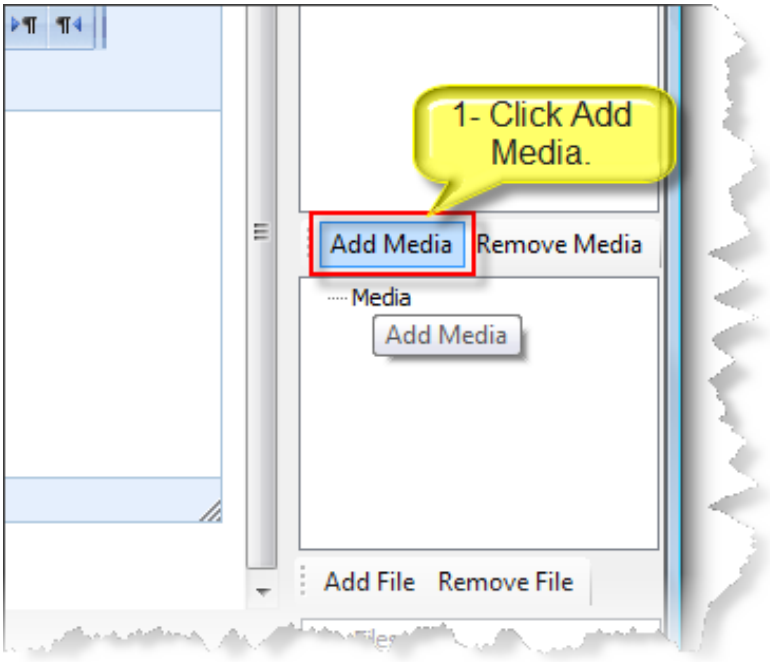
As shown you must select image from image list to add it to the project after cho
click Insert button to add image to the item content .

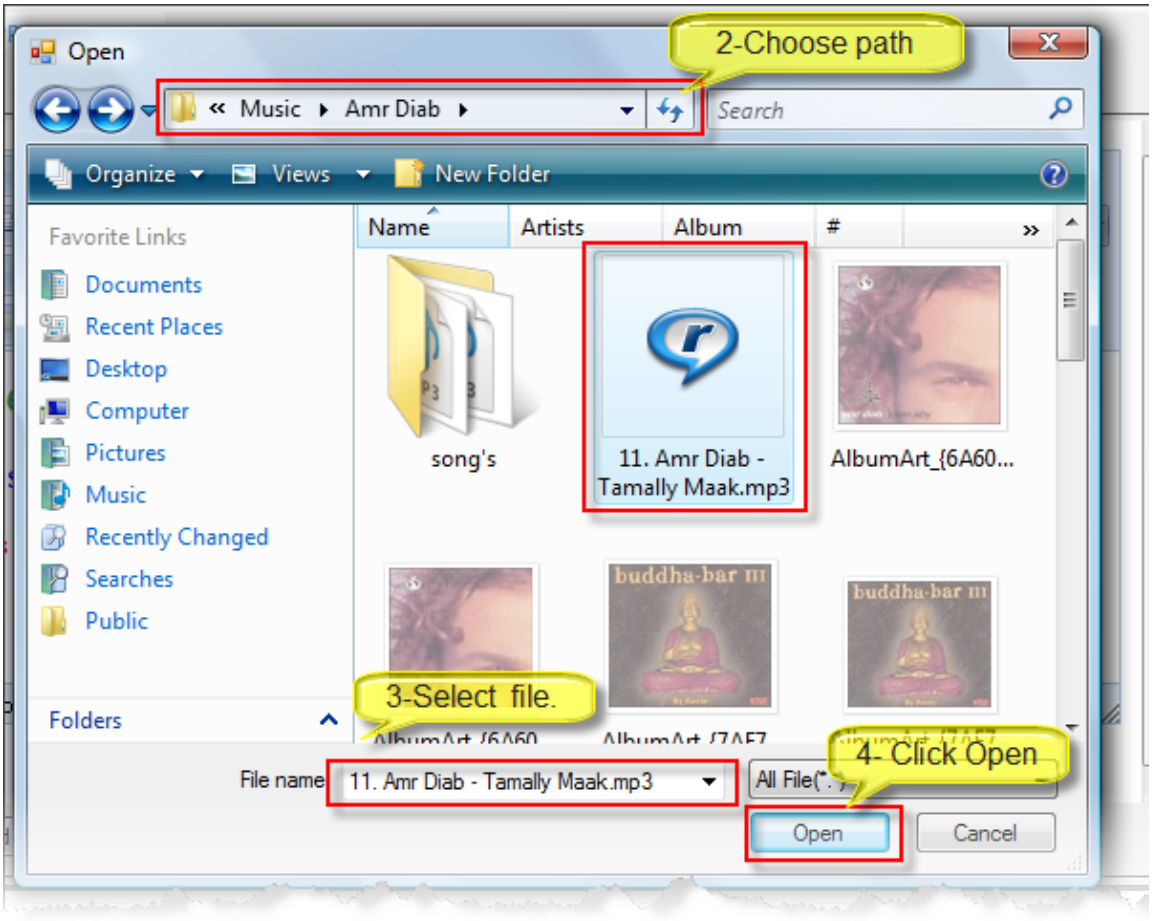
iii- Add media

Adding media to item is similar to add image the only different is there is list called m
image list and the button is Insert/edit embedded media.

To add media to item you must pass through the following steps :

1-Add media file to media list
as the following figure:

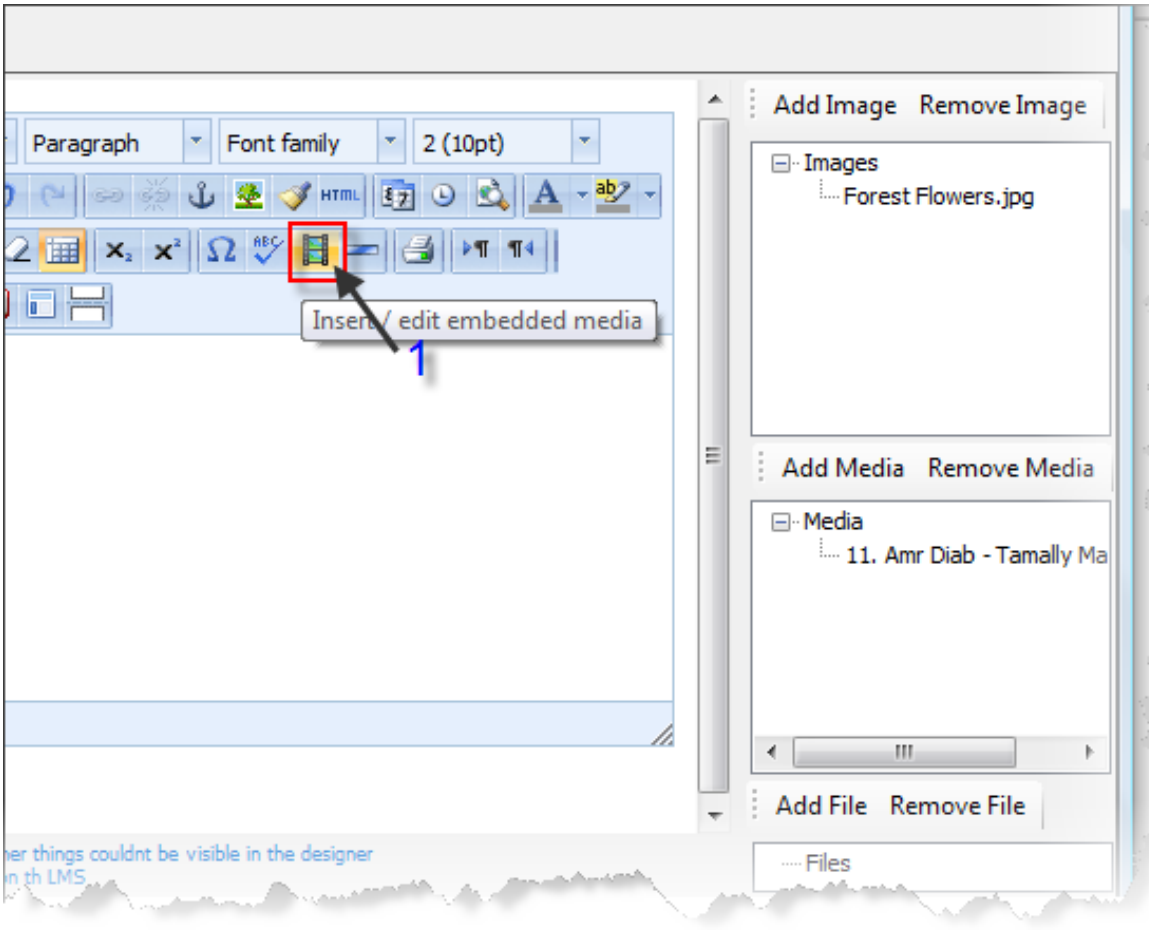


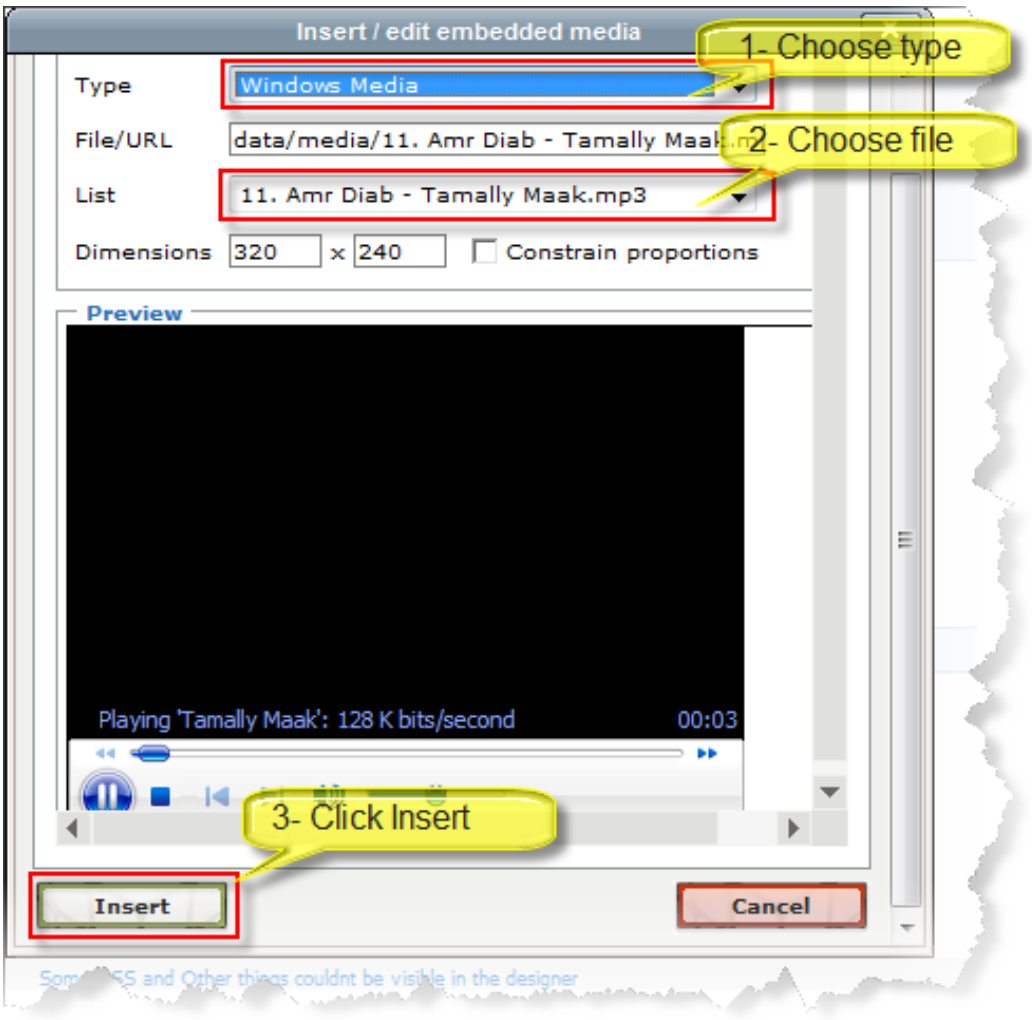


2-*Add media* file *to the content of the item:* you can do this by click on Insert/ edit eml

editor button

Look at the following figure:



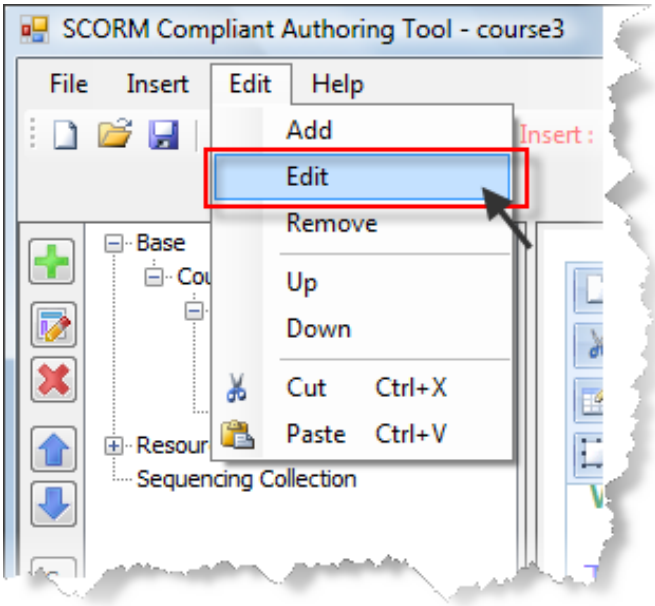


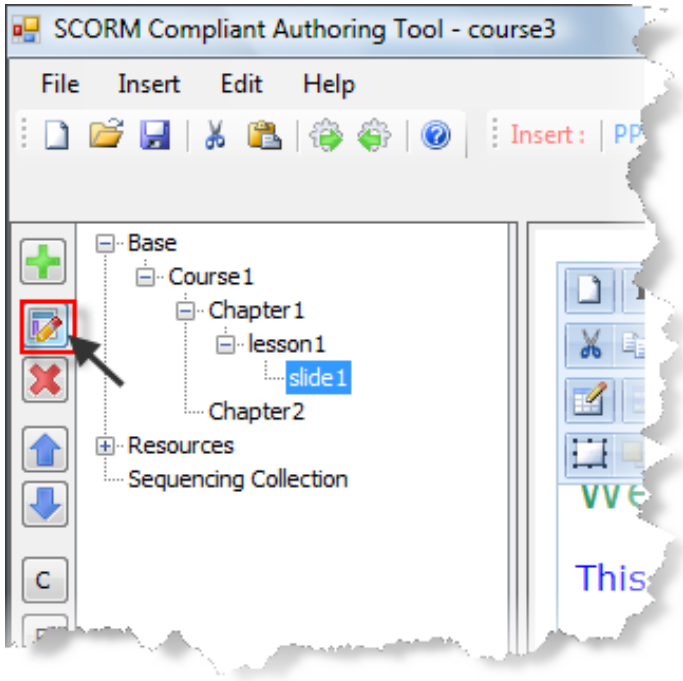
1- Edit Item Setting

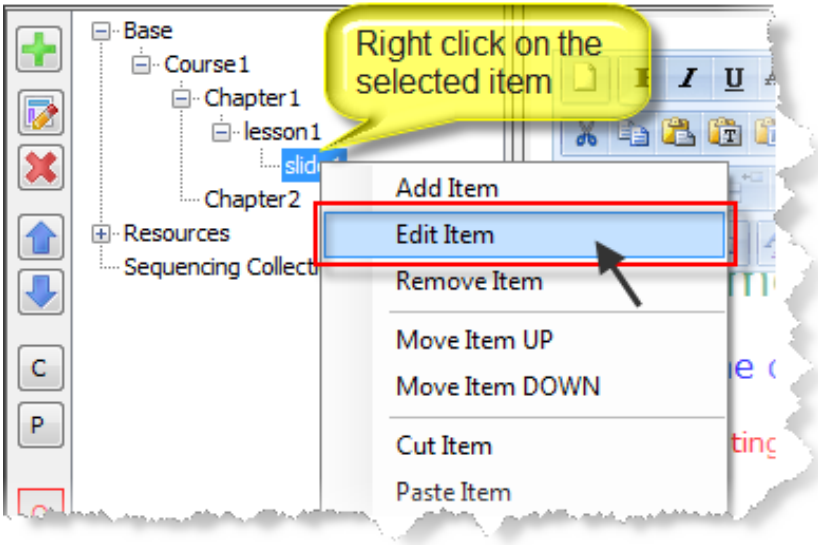
To edit settings (options) must select the item that you want to edit, and then pass through the following steps

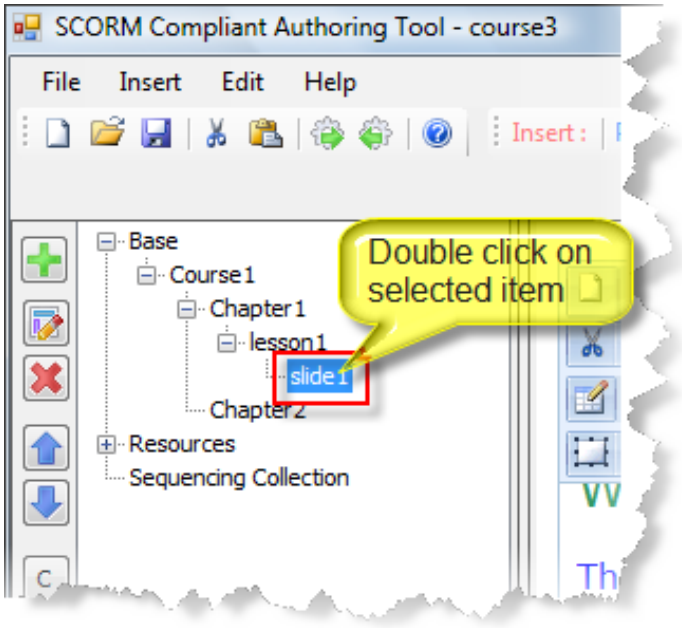
1- Click Edit :

You can click Edit by one of the following methods
look at the following figures:


SCORM Compliant Authoring Tool - course3
File
Insert
Edit
Help
Add
Edit
Remove
Up
Down
Cut Ctrl+X
Paste Ctrl+V
Base
Sequencing Collection


SCORM Compliant Authoring Tool - course3
File
Insert
Edit
Help
Base
Course1
Chapter1
lesson1
slide1
Chapter2
Resources
Sequencing Collection

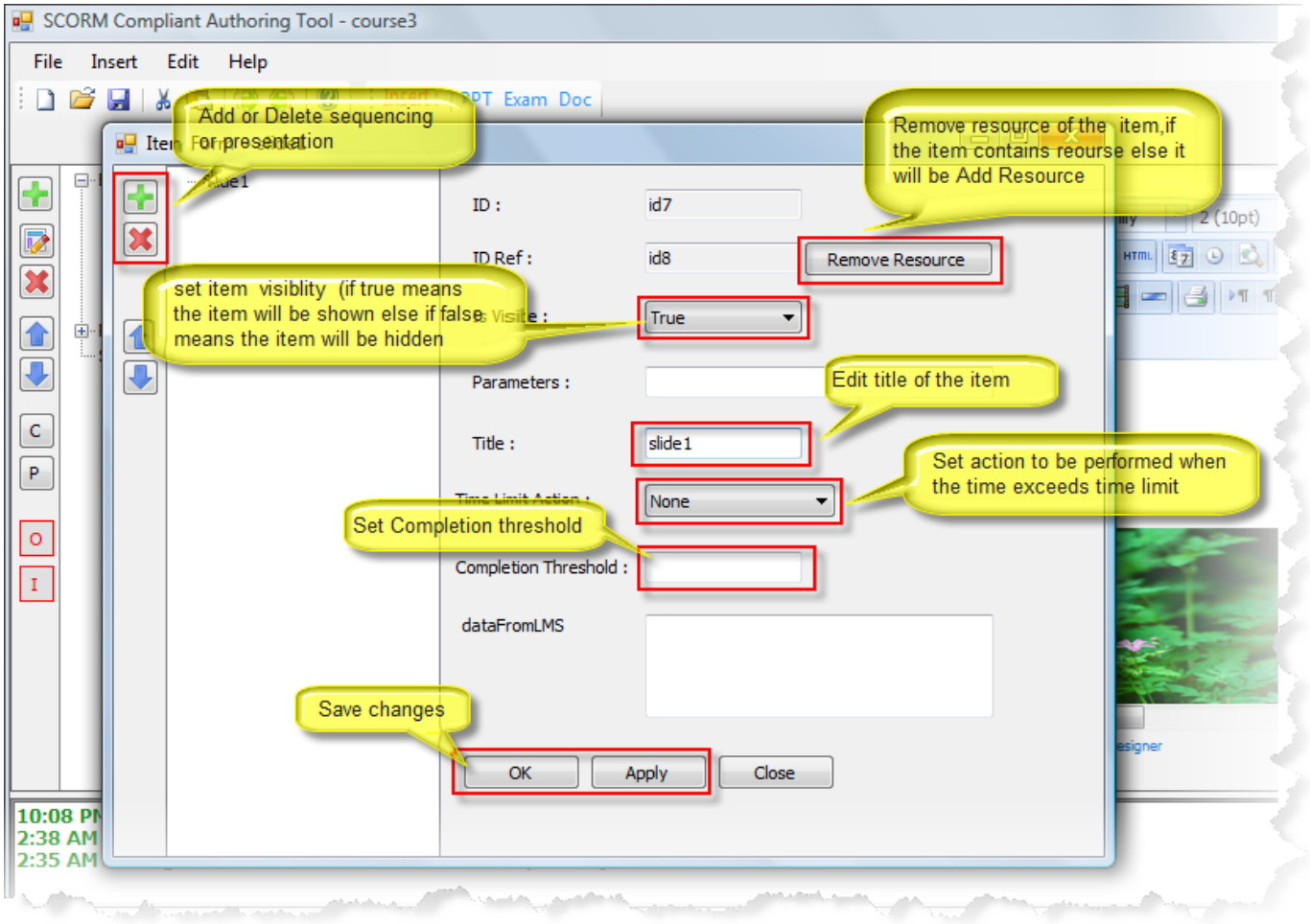

Right click on the selected item
Base
Course1
Chapter1
lesson1
Chapter2
Resources
Add Item
Edit Item
Remove Item
Move Item UP
Move Item DOWN
Cut Item
Paste Item



2- Edit item settings :

You can edit visibility, title, completion threshold, time limit action, sequencing and navigation and presentation

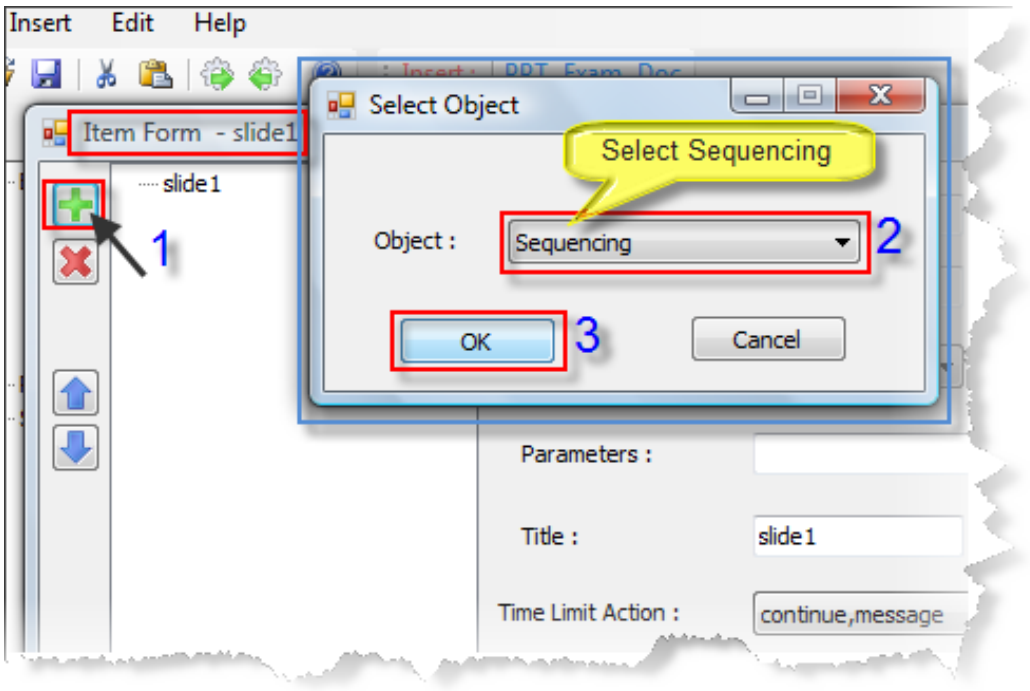
Look at the following figure:



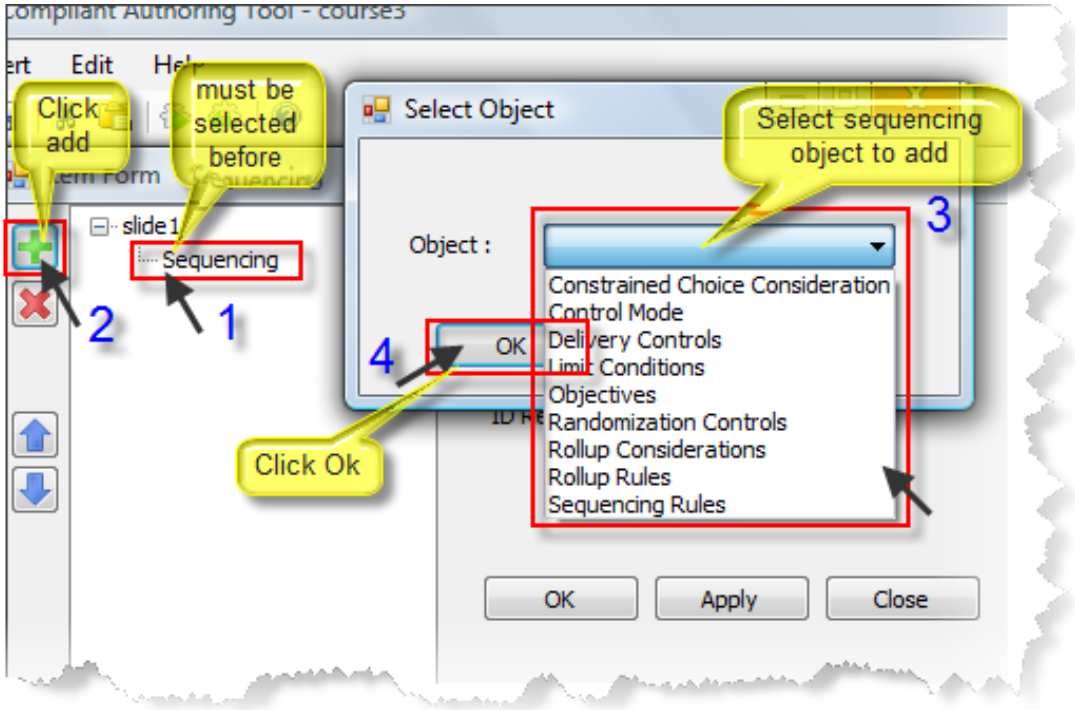
In order to add a sequencing navigation or presentation to the item, you must have enough knowledge in SCORM 2004 standard

i- Add sequencing : you must select item before then open edit item form then click add sequencing

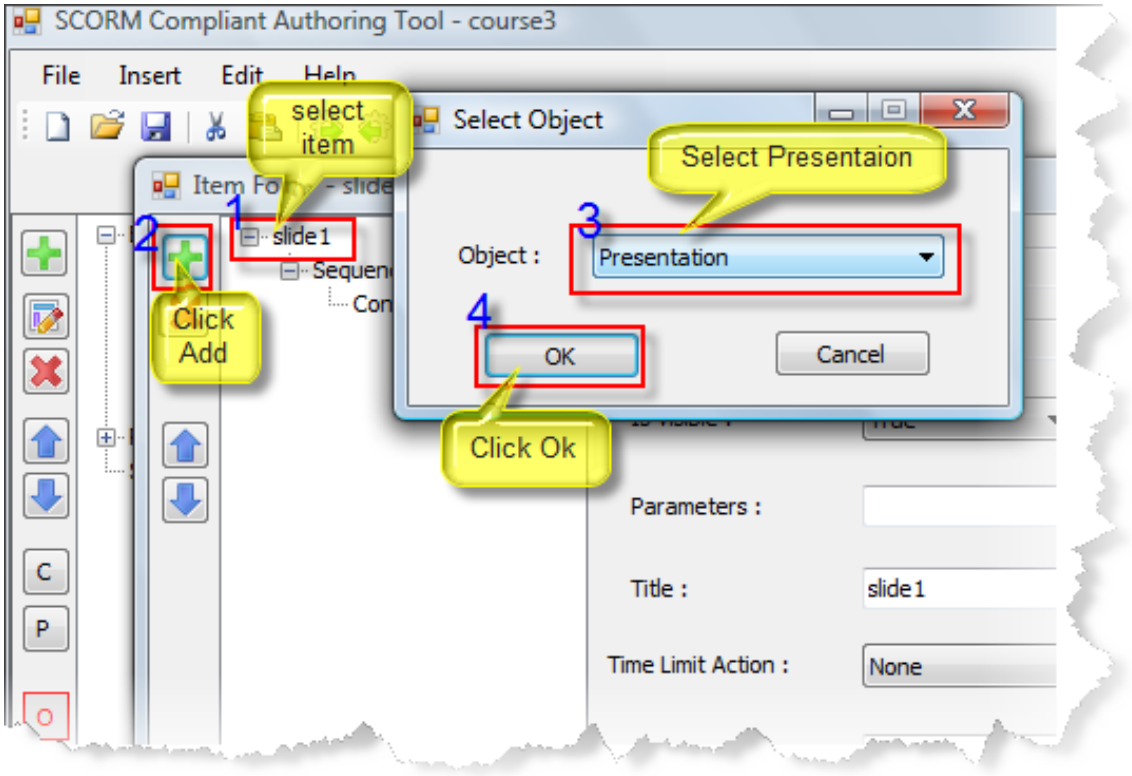
Look at the following figures :



After adding sequencing you can add what you want of sequencing objects by selectir sequencing object and click add as I mentioned before you must have enough knowledge of SCORM 2004 standard in order to deal with this advanced topic. To adc sequencing object look at the following figure :

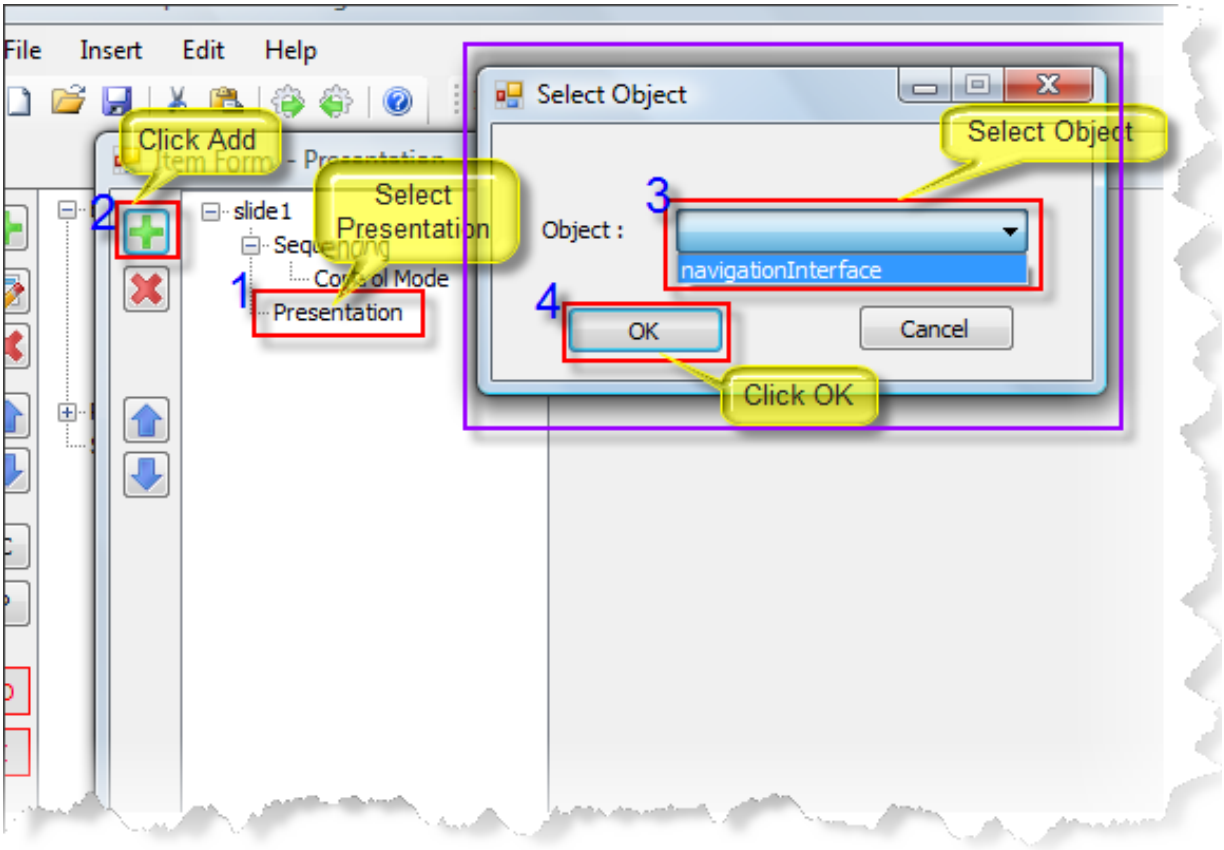


ii- Add Presentation : adding presentation object is the same as adding sequencing Open Item Form bye click on Edit item button.



To add Presentation Object you must select Presentation in the Item Form and click c Add button then you can select Presentation object to add. And go on using same way to add what you want of presentation .

Look at the following figure :


File
Insert
Edit
Help
Click Add
Select Presentation
slide1
Presentation
1
2
Select Object
Object :
navigationInterface
3
4
OK
Cancel
Select Object
Click OK

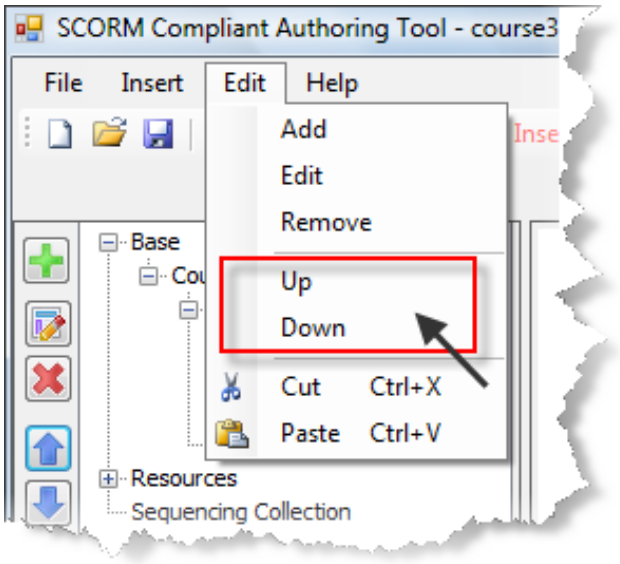
Move Item

As we show before the arrangement of items is very important since this arrangement will decide how the course will shown to the learner

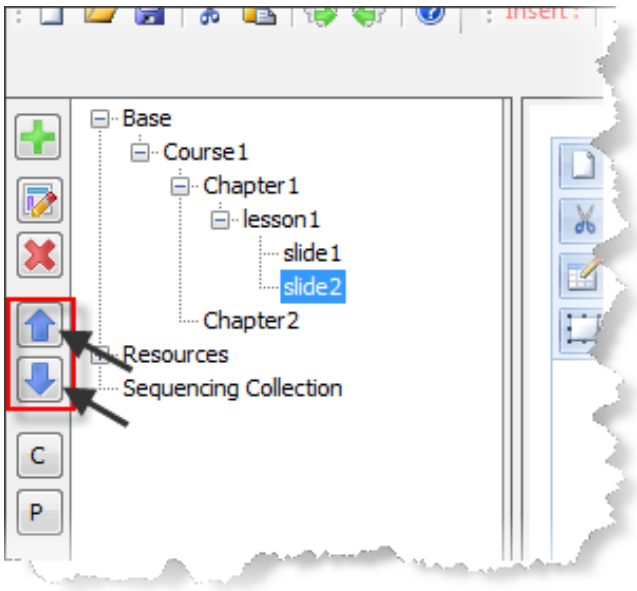
First we must remember that the parent item has not resources (does not contain web content).

There are two way to move item from one place to another

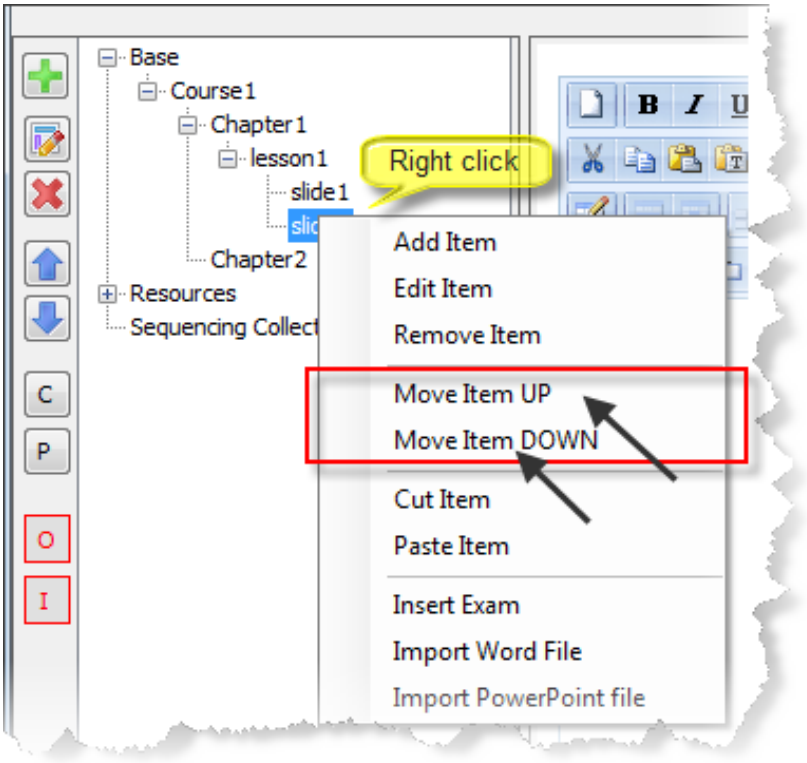
* First using move up and move down button as shown in the following figure:



or



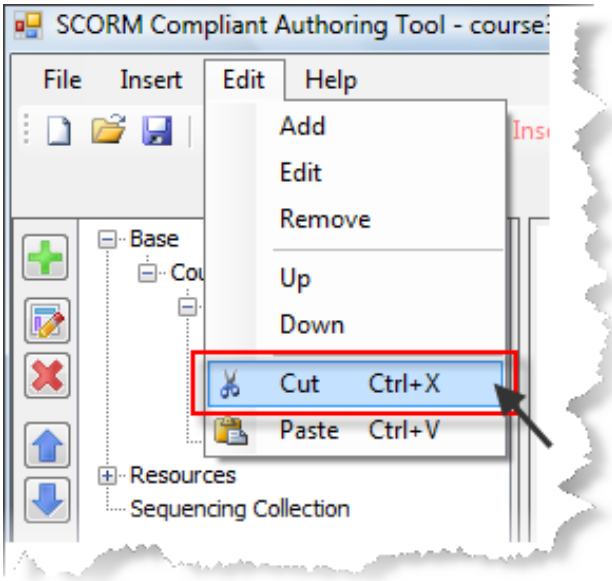
or

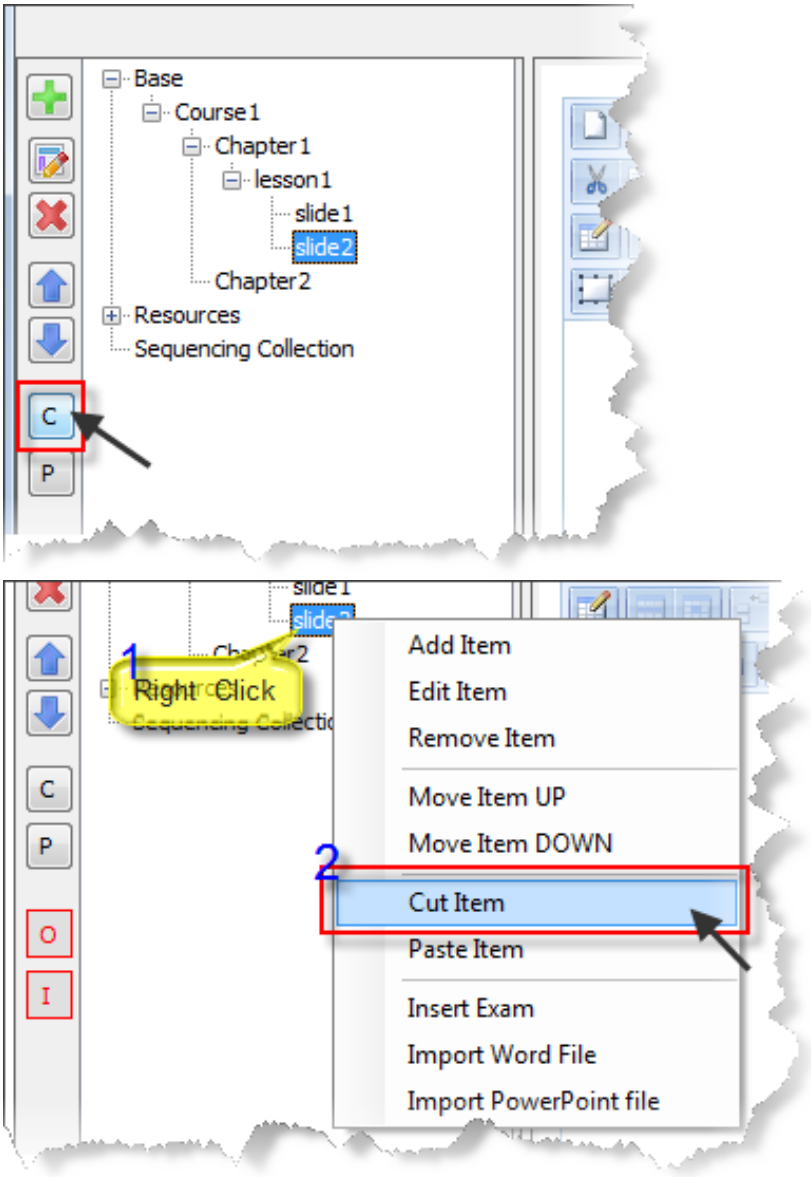


Note: Using this way you can only move item within the same parent if you want to move item from parent to another parent you can use the second method

* Second we can move item from one place to another using CUT and Paste

1- CUT item you can cut item using one of the following approaches:





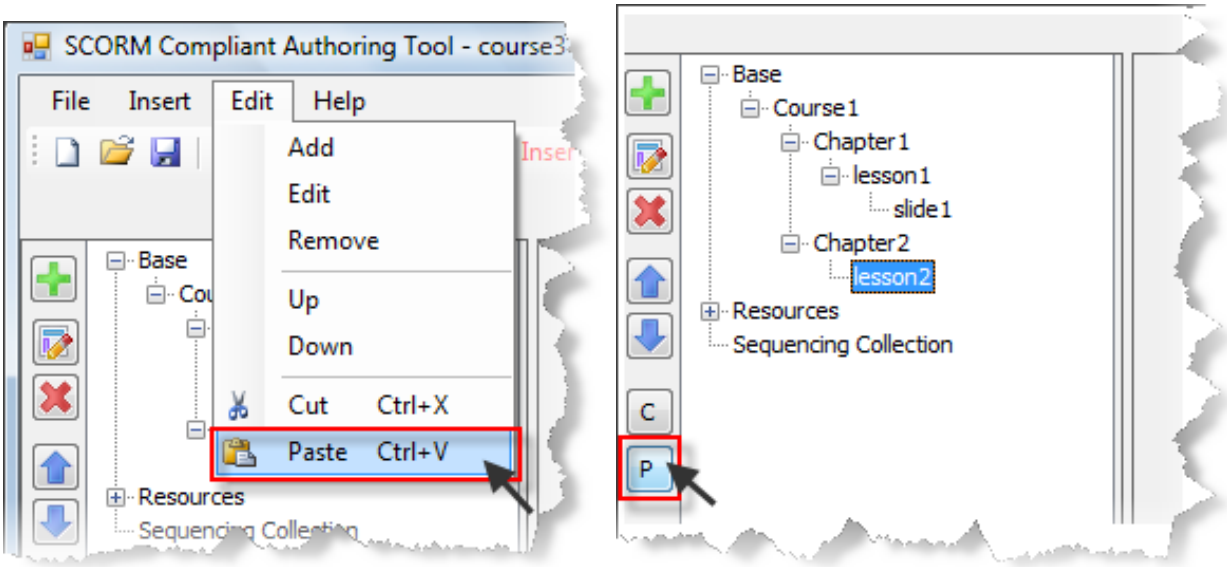
Before clicking on CUT you must select the item that we want to move it.

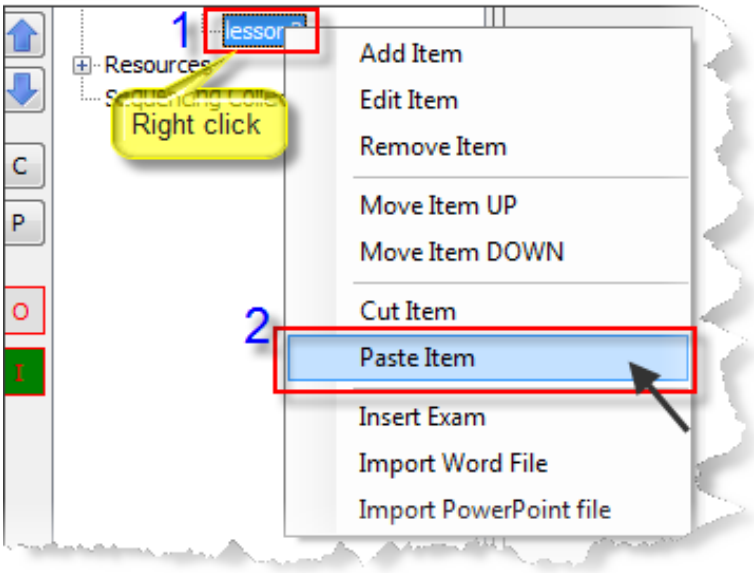
2- Paste

After CUT item you can Paste it to another parent (we can paste item to another parent item (have no resource)).

You must select destination parent before click Paste.

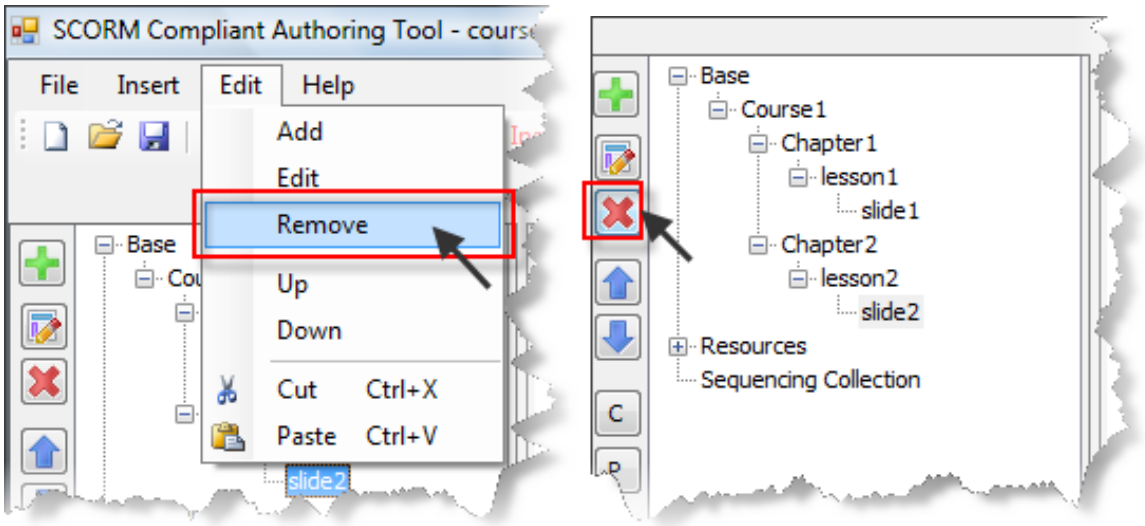
To paste item you can use one of the following methods (look at figures):

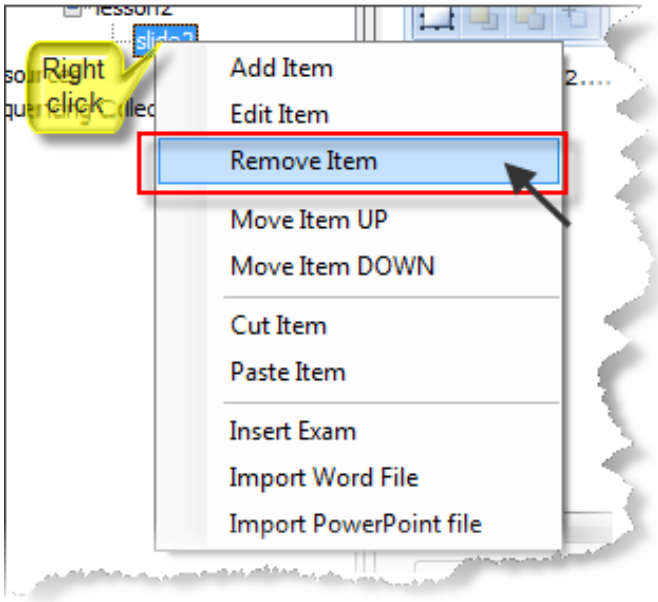

SCORM Compliant Authoring Tool - course3
File
Insert
Edit
Help
Add
Edit
Remove
Up
Down
Cut Ctrl+X
Paste Ctrl+V
Base
Resources
Base
Course1
Chapter1
lesson1
slide1
Chapter2
lesson2
Resources
Sequencing Collection
C
P


1
Right click
Resources
C
P
O
I
2
Add Item
Edit Item
Remove Item
Move Item UP
Move Item DOWN
Cut Item
Paste Item
Insert Exam
Import Word File
Import PowerPoint file

Remove Item

You can remove selected item by using one of the following methods:

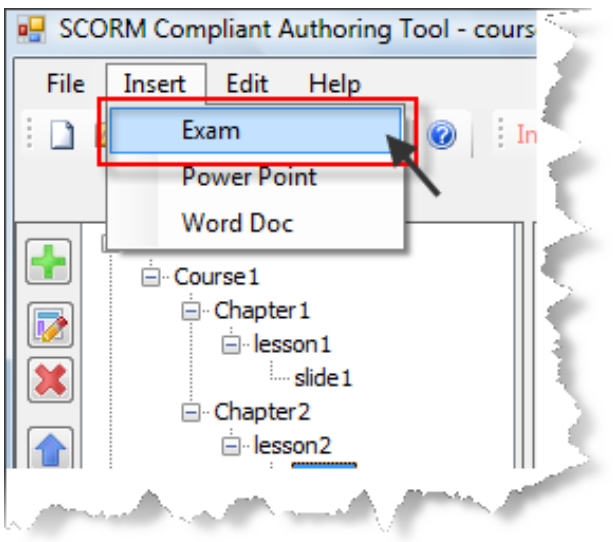




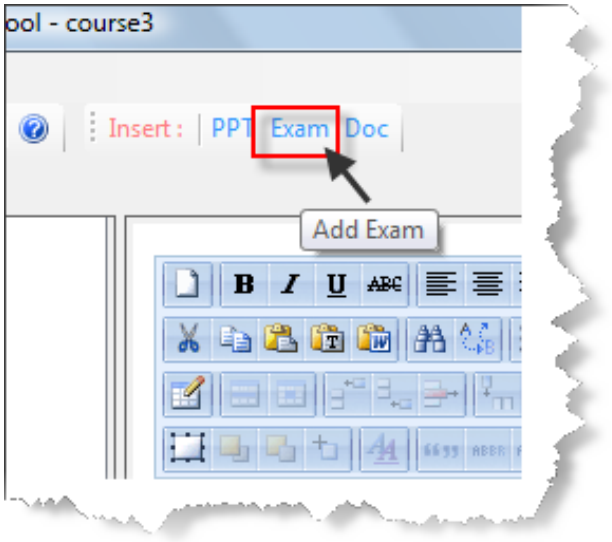
Add Exam

SCORM 2004 Authoring tool only support multiple choice exam.

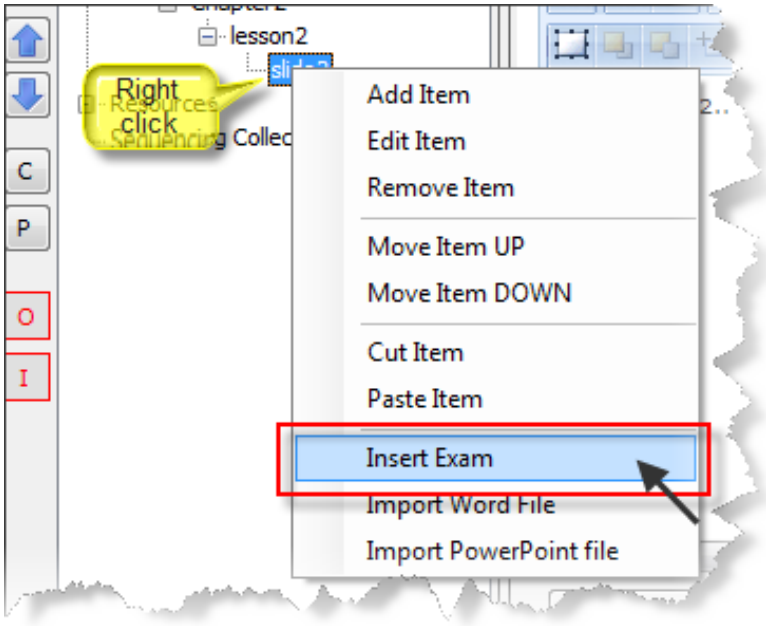
In order to add exam you should:



or



or

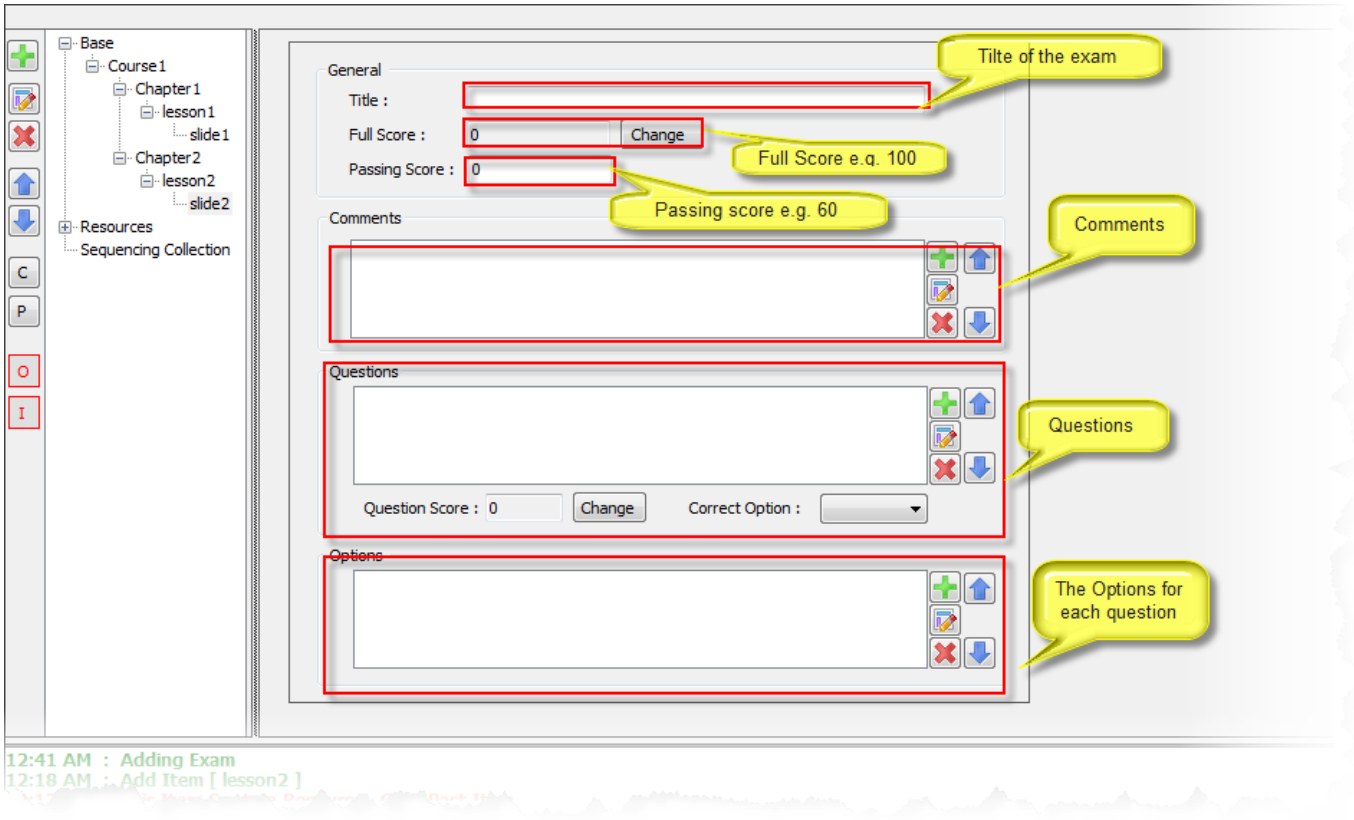


Note: the item that will contain the exam must have resource.

Edit Exam

You can edit exam that created before using exam editor

The following figure will show the exam editor



First you must select the item that has exam

You can open exam editor by selecting the desired item.

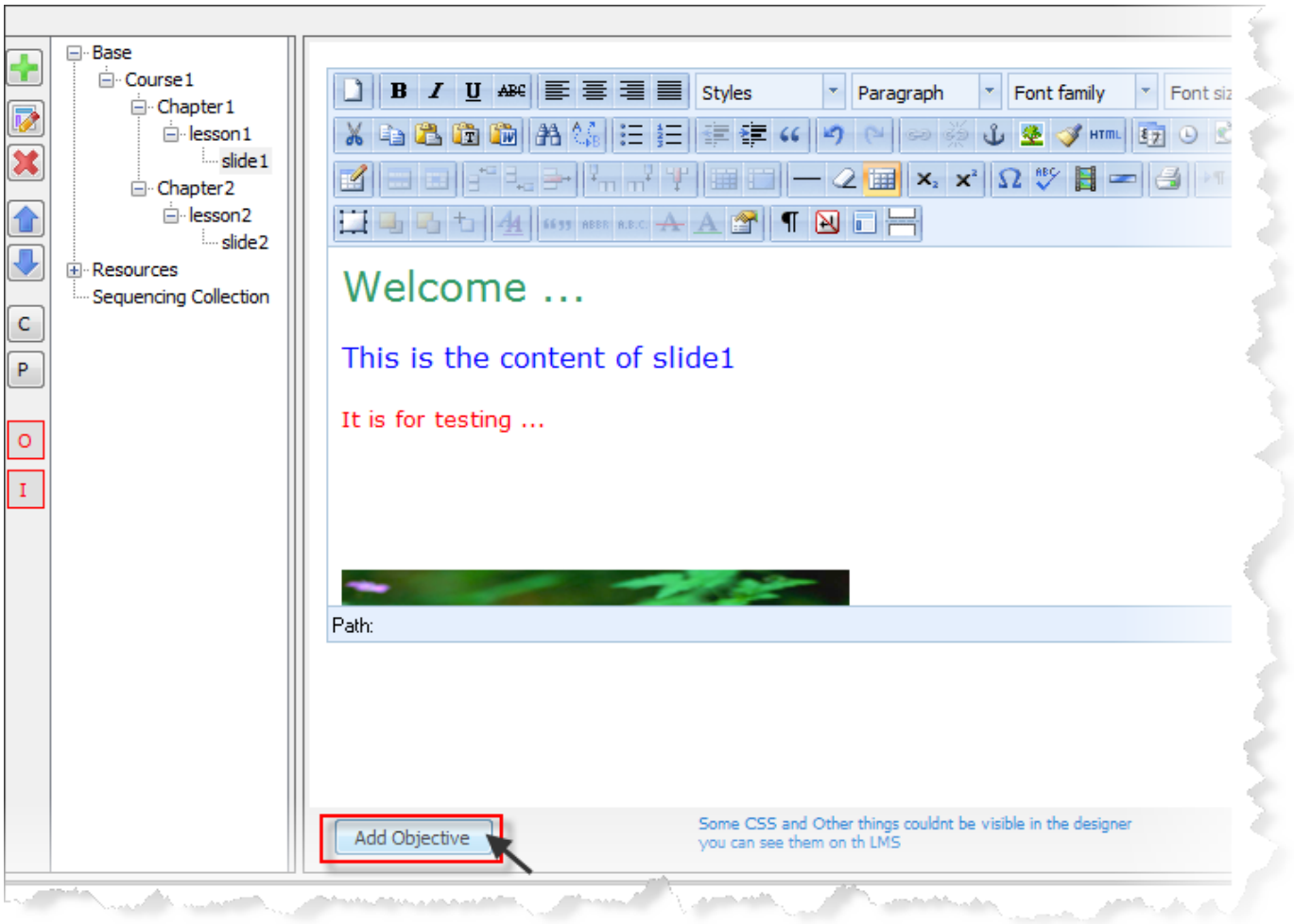
Add Primary Objective

You can add primary objective only to the items that contain resource (only items that contain web content).

In order to add primary objective you must follow the following steps

1-select item (contains web content) by click on it on the activity tree

2- Click Add Primary Objective as shown in the following figure:

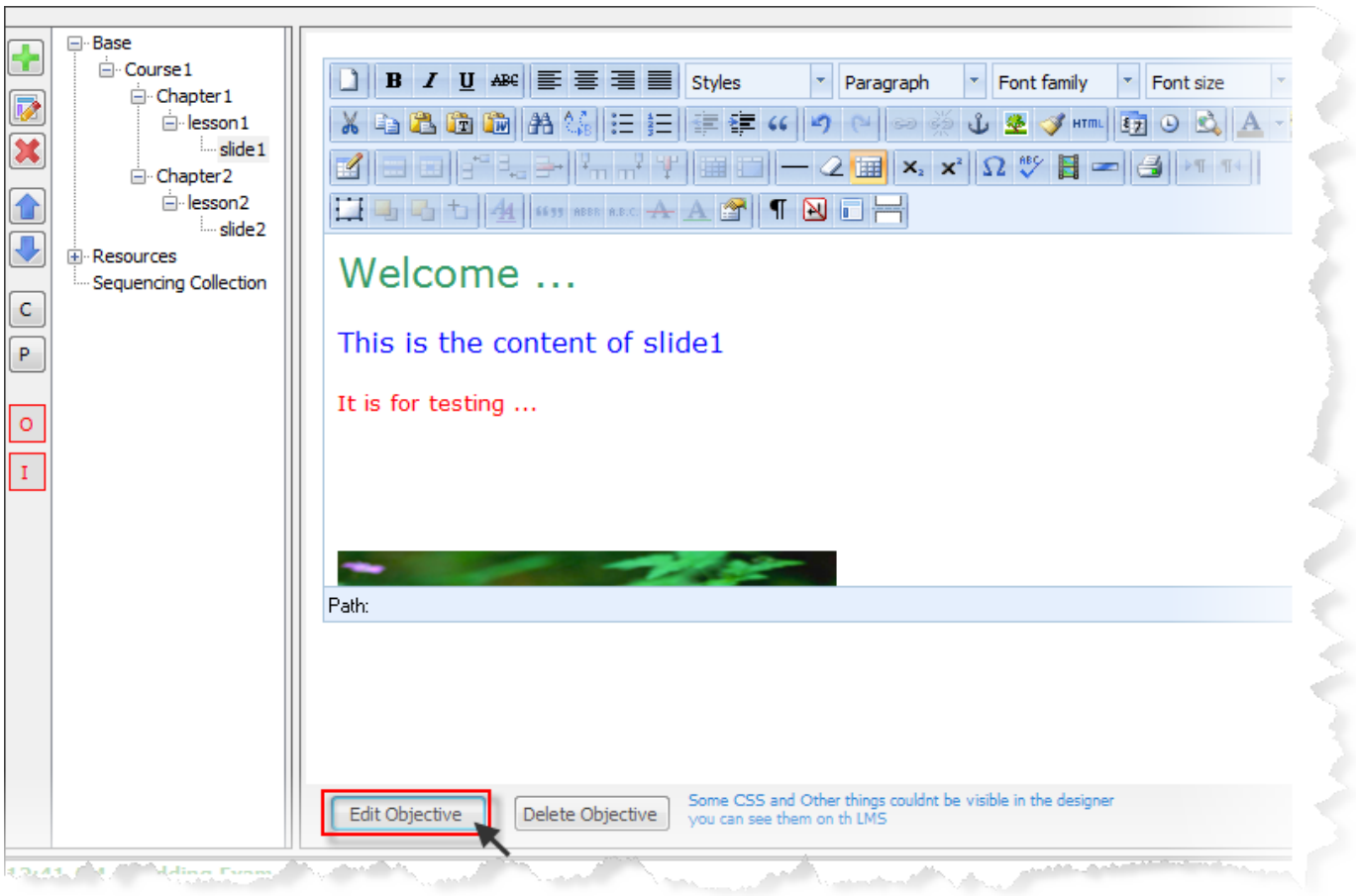


Modify Primary Objective

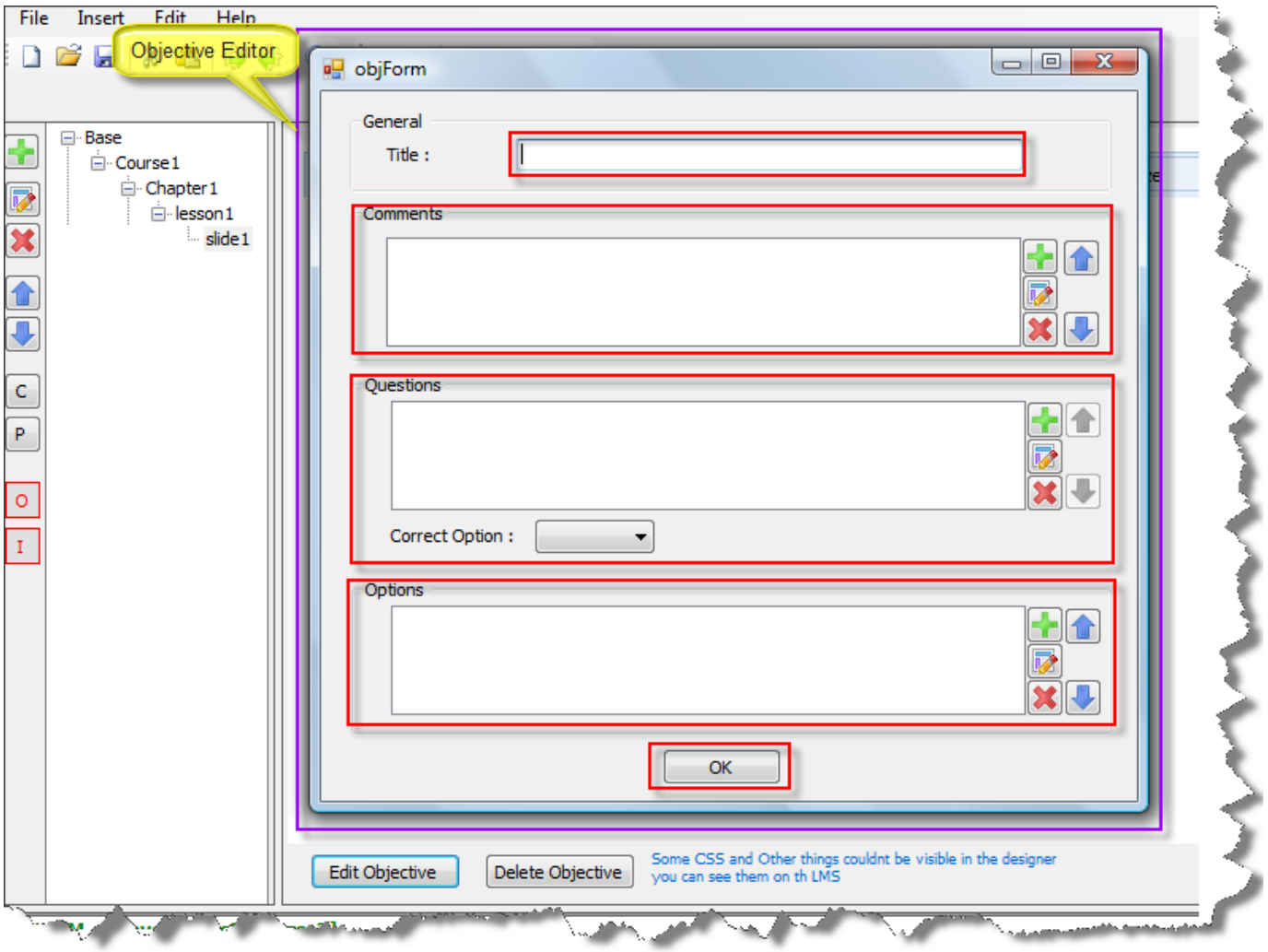
Edit Primary Objective

In order to edit primary objective, first you must select the item that contain primary objective

Second click Edit Objective button to show objective editor dialog look at the following figure



After click Edit Objective object Form is displayed, look at the following figure to take overview

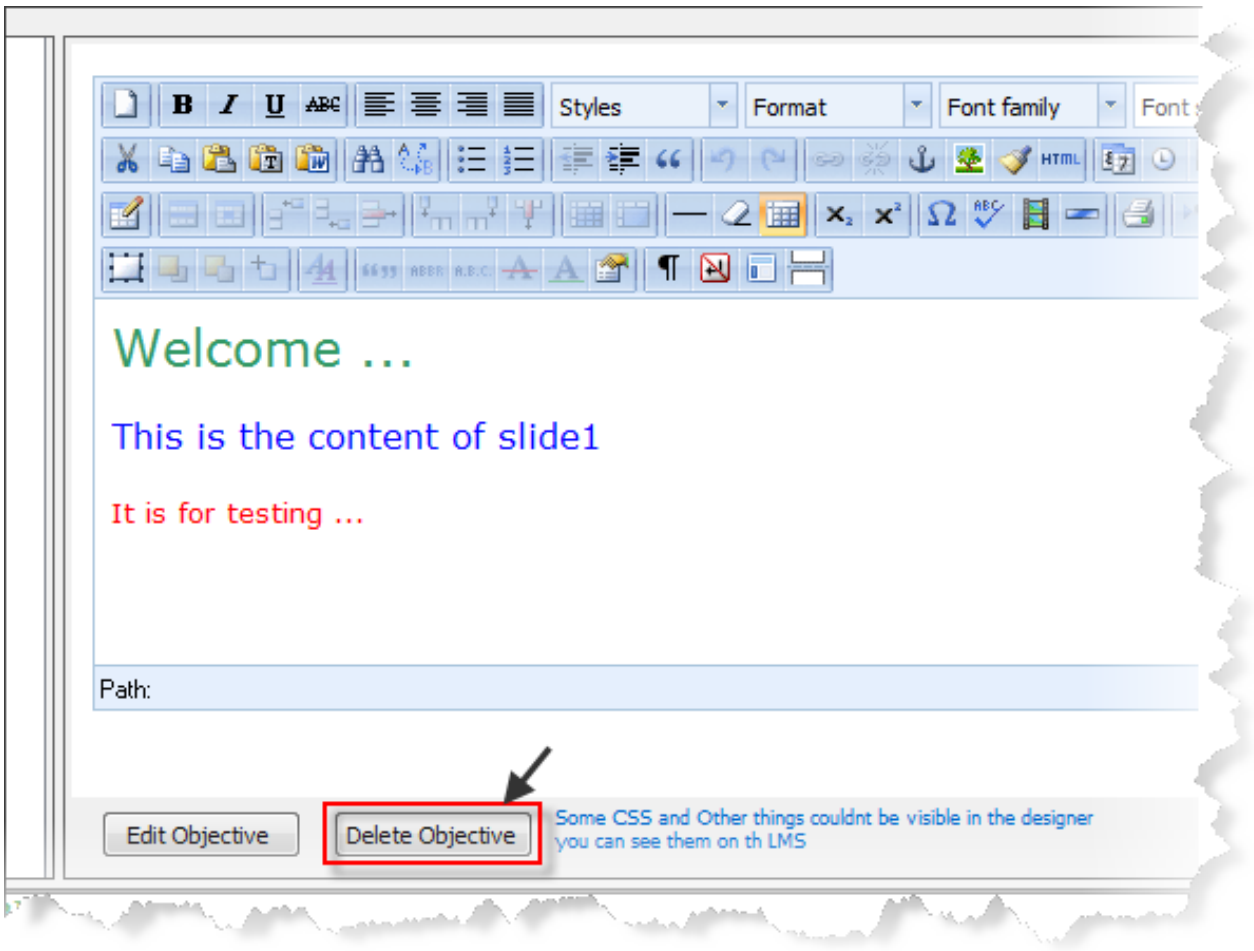


Remove Primary Objective

To remove primary objective you must select the item that has primary objective

Then click Delete Objective

Look at the following figure


Styles
Format
Font family
Welcome ...
This is the content of slide1
It is for testing ...
Path:
Edit Objective
Delete Objective
Some CSS and Other things couldnt be visible in the designer
you can see them on th LMS

Add Word file

User can import word document file to item with in the course (word file will be item).

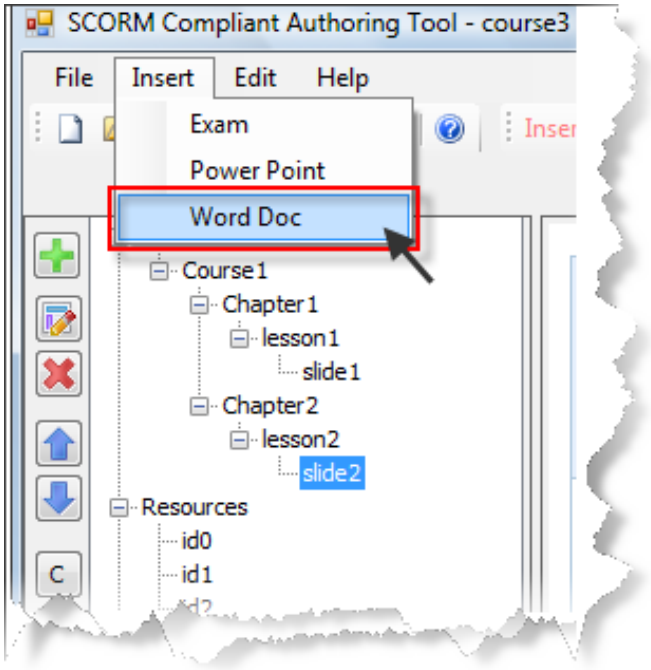
To add word file to item you must follow the following steps:

1-Select the item that will have the word file

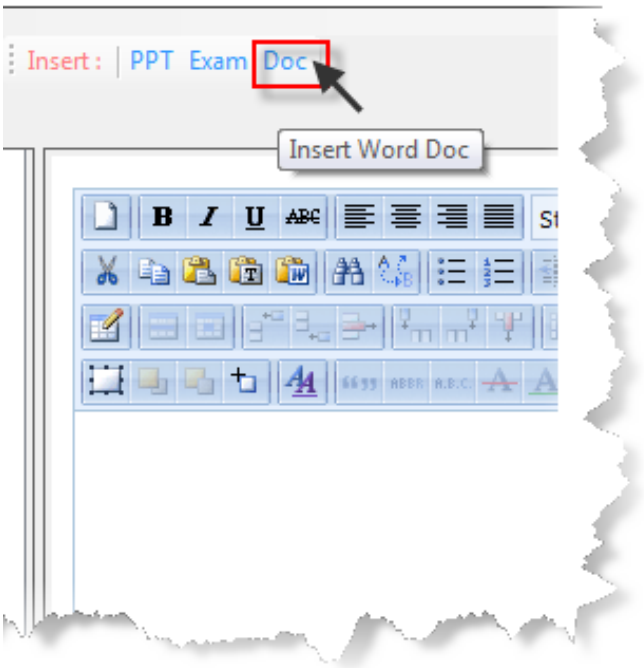
2- Click Insert Word

you can use one of the following approaches to click insert word file.

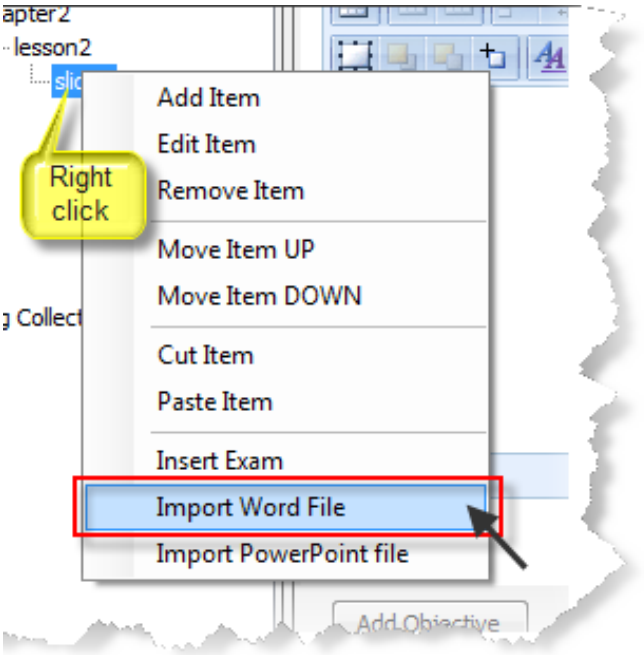
Look at the following figures:



or

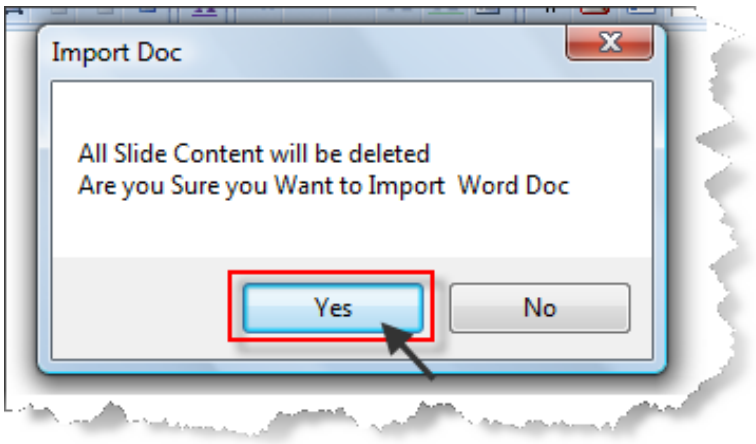


or



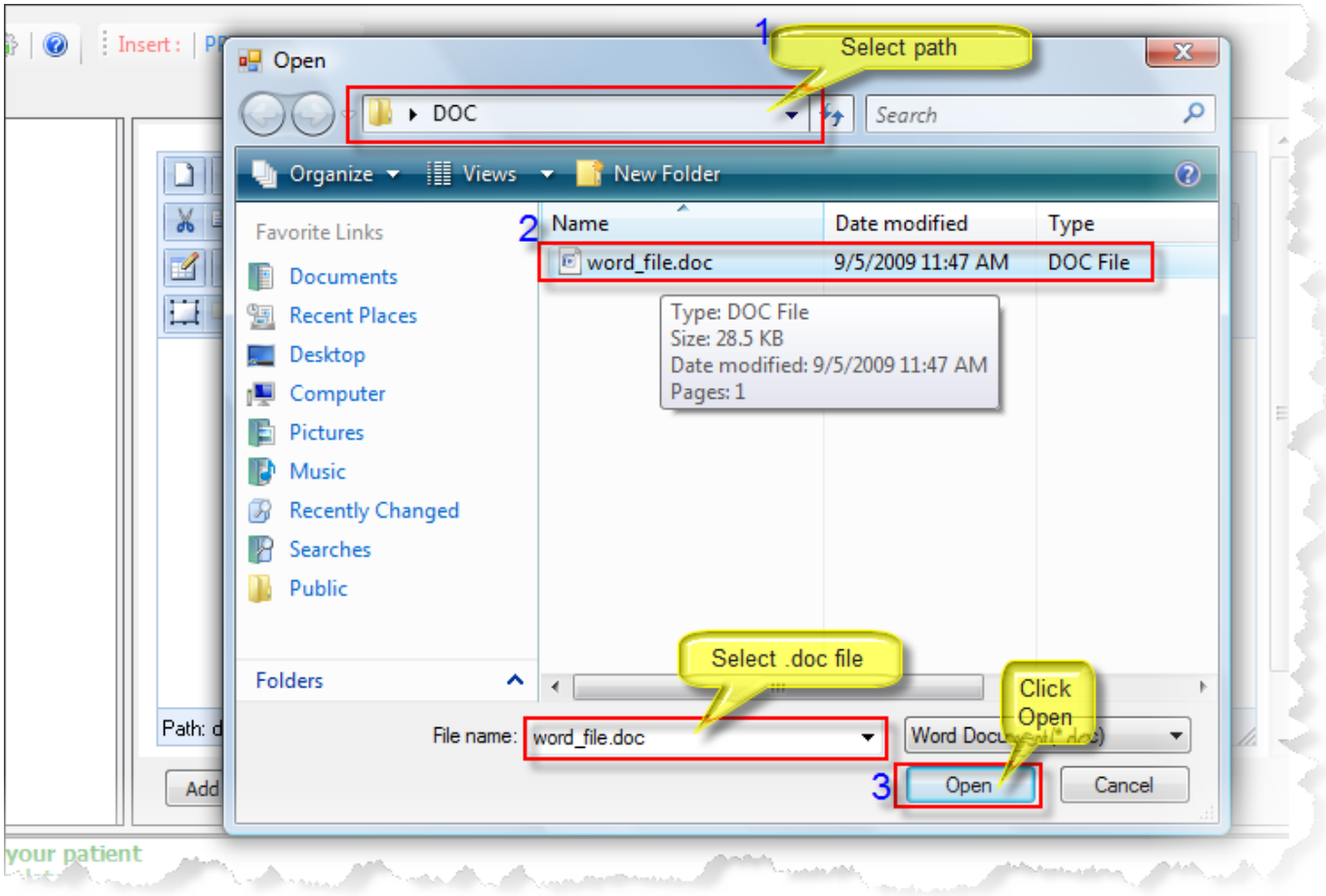
3-Click Yes on the confirmation message that is displayed (All slide content will be deleted)

Look at the following figure:



4-Choose word file that you want to add and then click Open

Look at the following figure:



Add PowerPoint file

User can import PowerPoint file to item with in the course (the PowerPoint file will be an item).

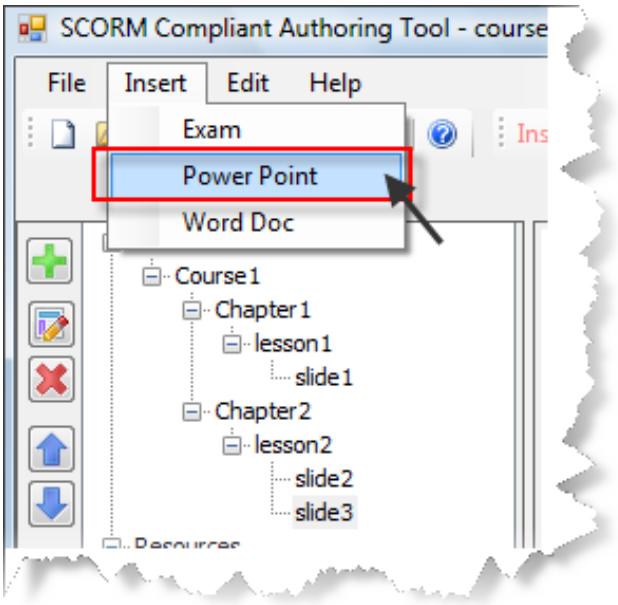
To PowerPoint file to item you must follow the following steps:

1-Select the item that will have the PowerPoint file

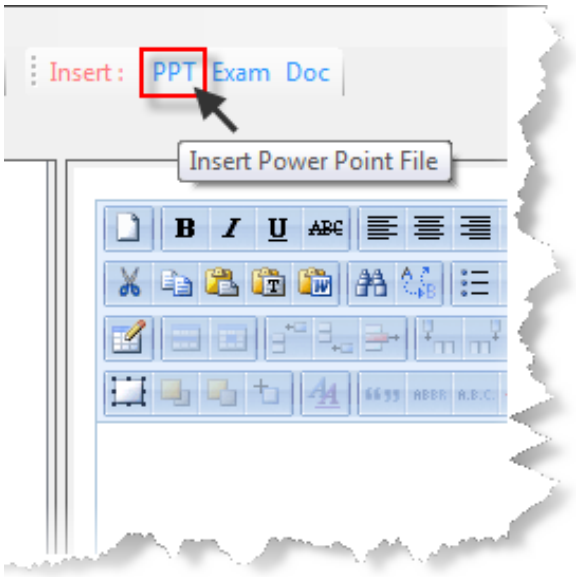
2-Click Insert PowerPoint

you can use one of the following approaches to click insert PowerPoint file.

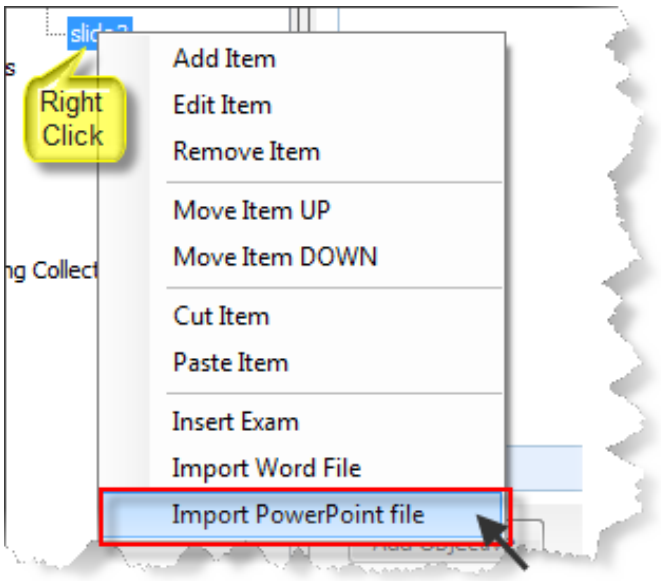
Look at the following figures:



or

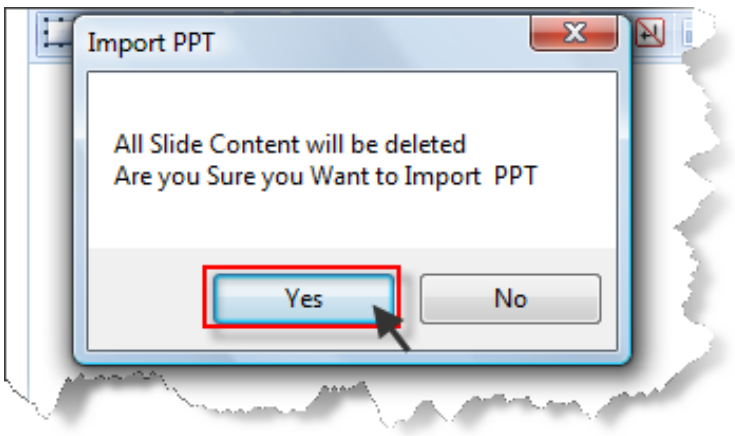


or



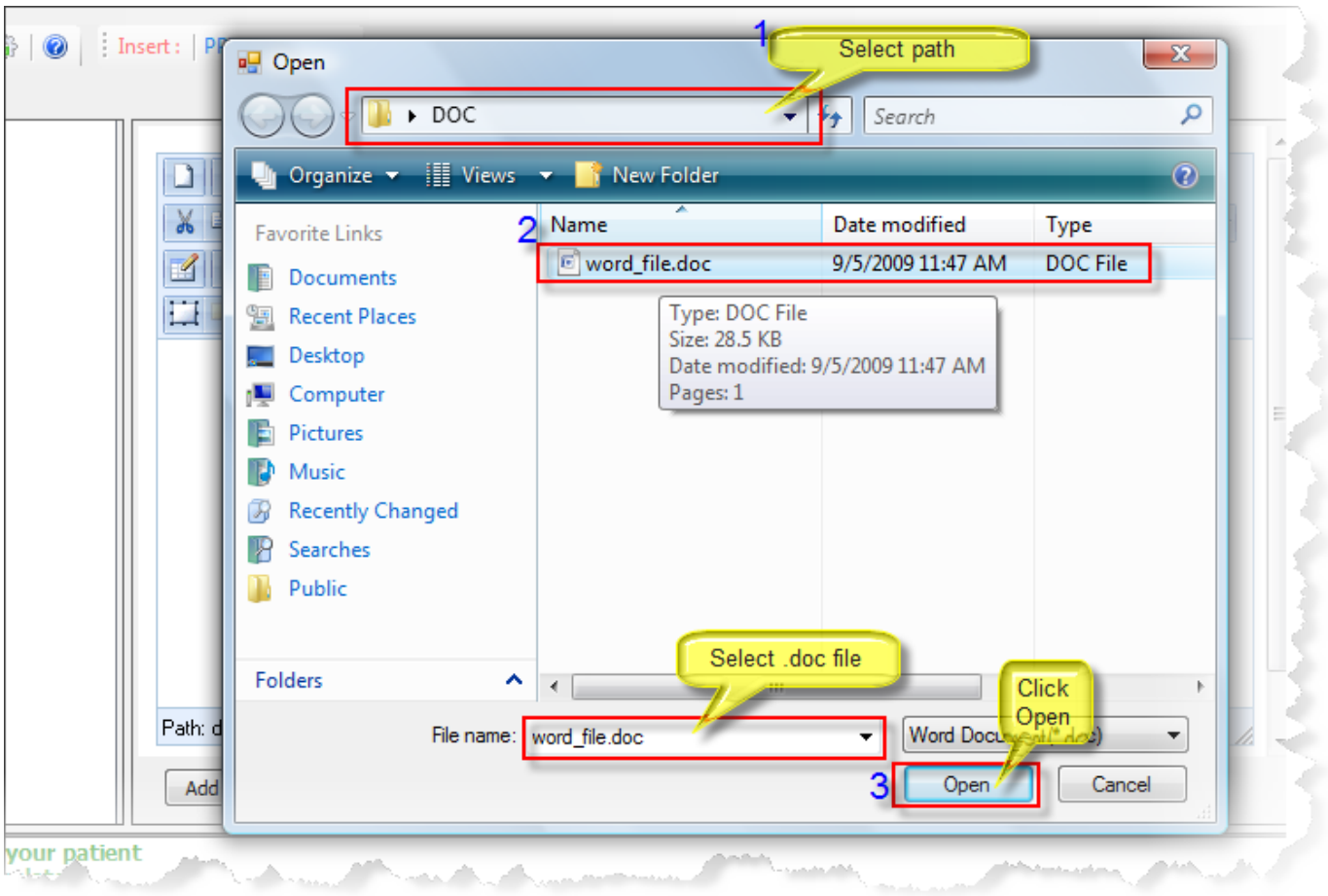
3-Click Yes on the confirmation message that is displayed (All slide content will be deleted)

Look at the following figure:



4-Choose PowerPoint file that you want to add and then click Open

Look at the following figure:



Note : The imported power point file will only be displayed on the editor you cannot edit it.

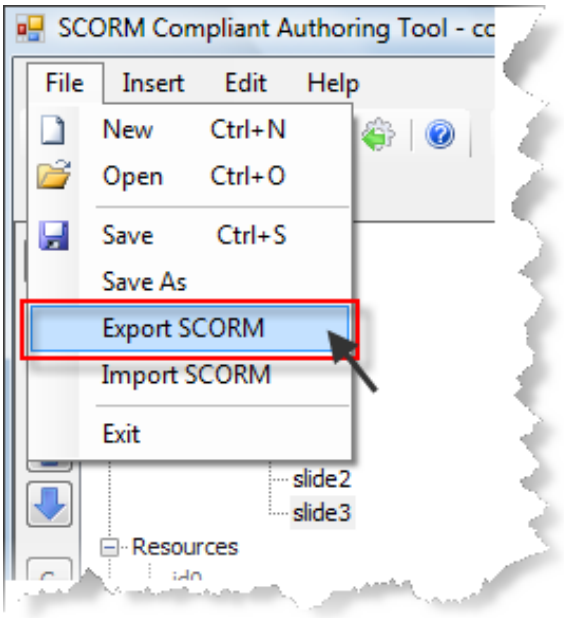
Export a Package

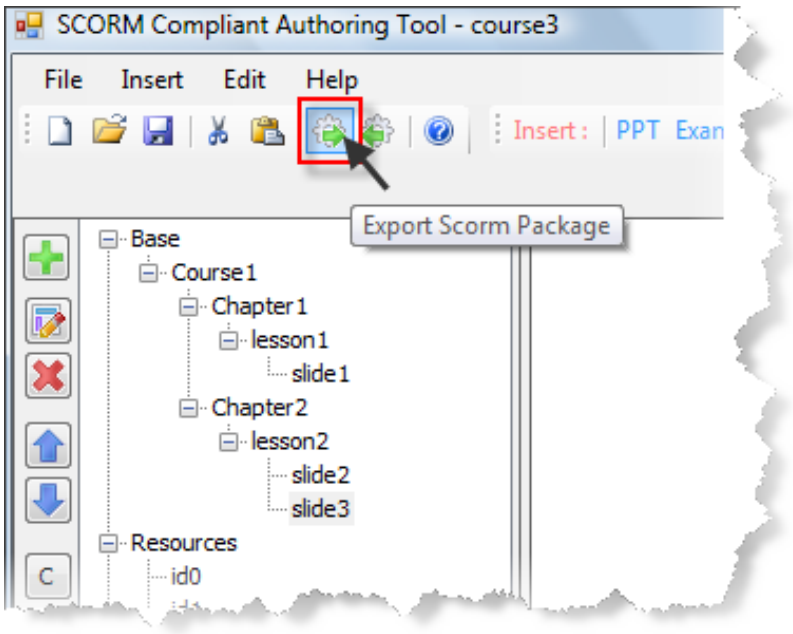
When the course is ready and contain all desired content, you can export course as compressed package (.ZIP) as the SCORM 2004 standard required.

In order to export package you should

1- Click Export Package

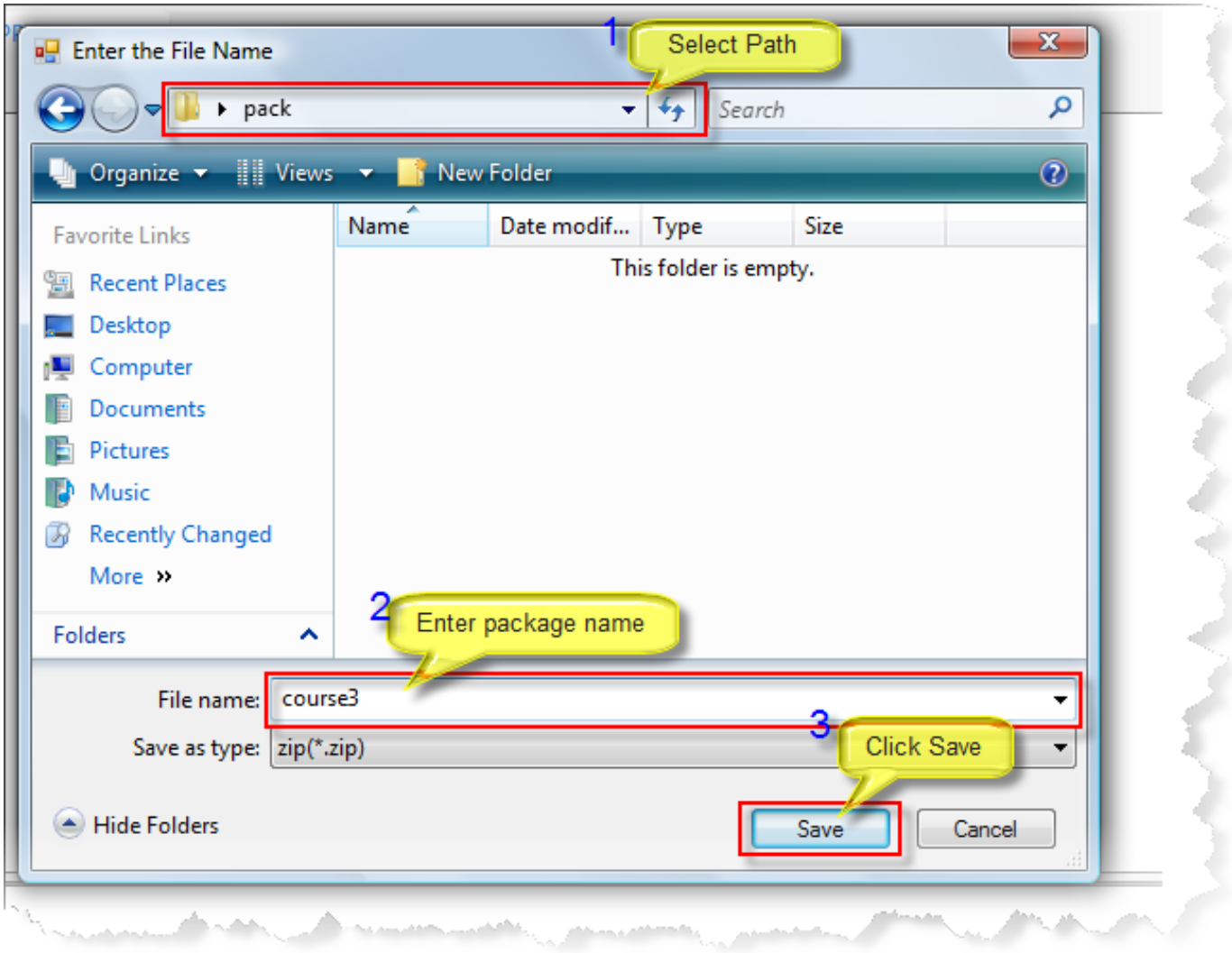
To that you can follow one of the following approaches (look at the following figures).





2- Choose package name and destination folder to save the generated package

Look at the following figure:

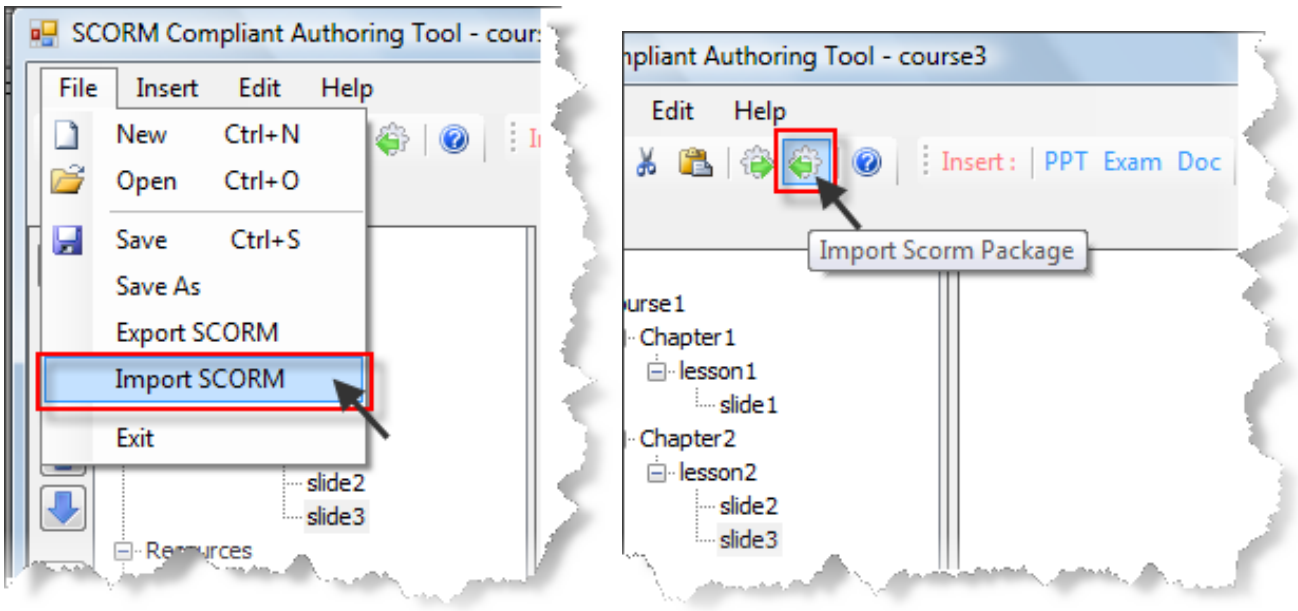

Enter the File Name
1
Select Path
pack
Search
Organize
Views
New Folder
Favorite Links
Recent Places
Desktop
Computer
Documents
Pictures
Music
Recently Changed
More
Name
Date modif...
Type
Size
This folder is empty.
2
Enter package name
Folders
File name:
course3
Save as type:
zip(*.zip)
3
Click Save
Hide Folders
Save
Cancel

Import Package

You can import any SCORM 1.2 or SCORM 2004 package that have been generated using another authoring tool

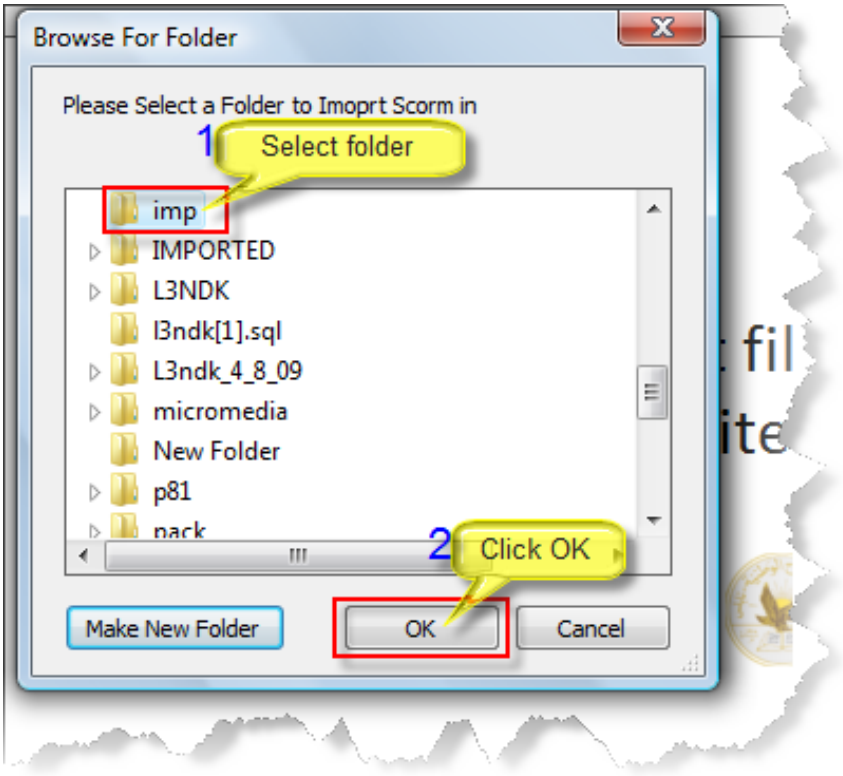
In order to import package you should:

1- Click Import using one of the following methods (look at the following figures):



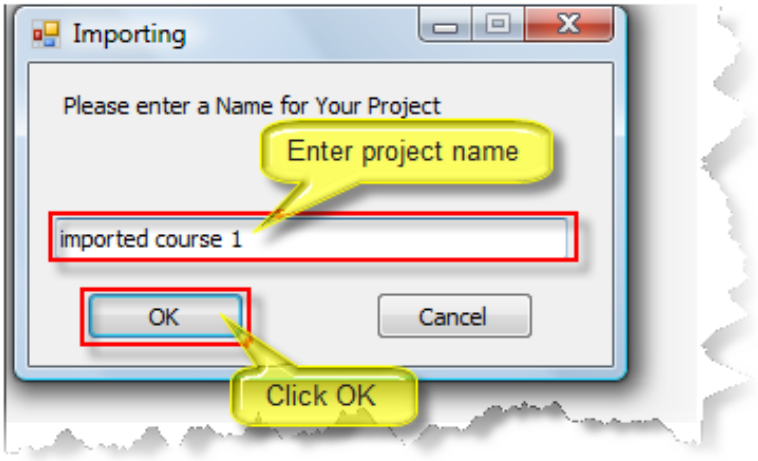
2- Select Folder to extract the imported package in it.

Look at the following figure:



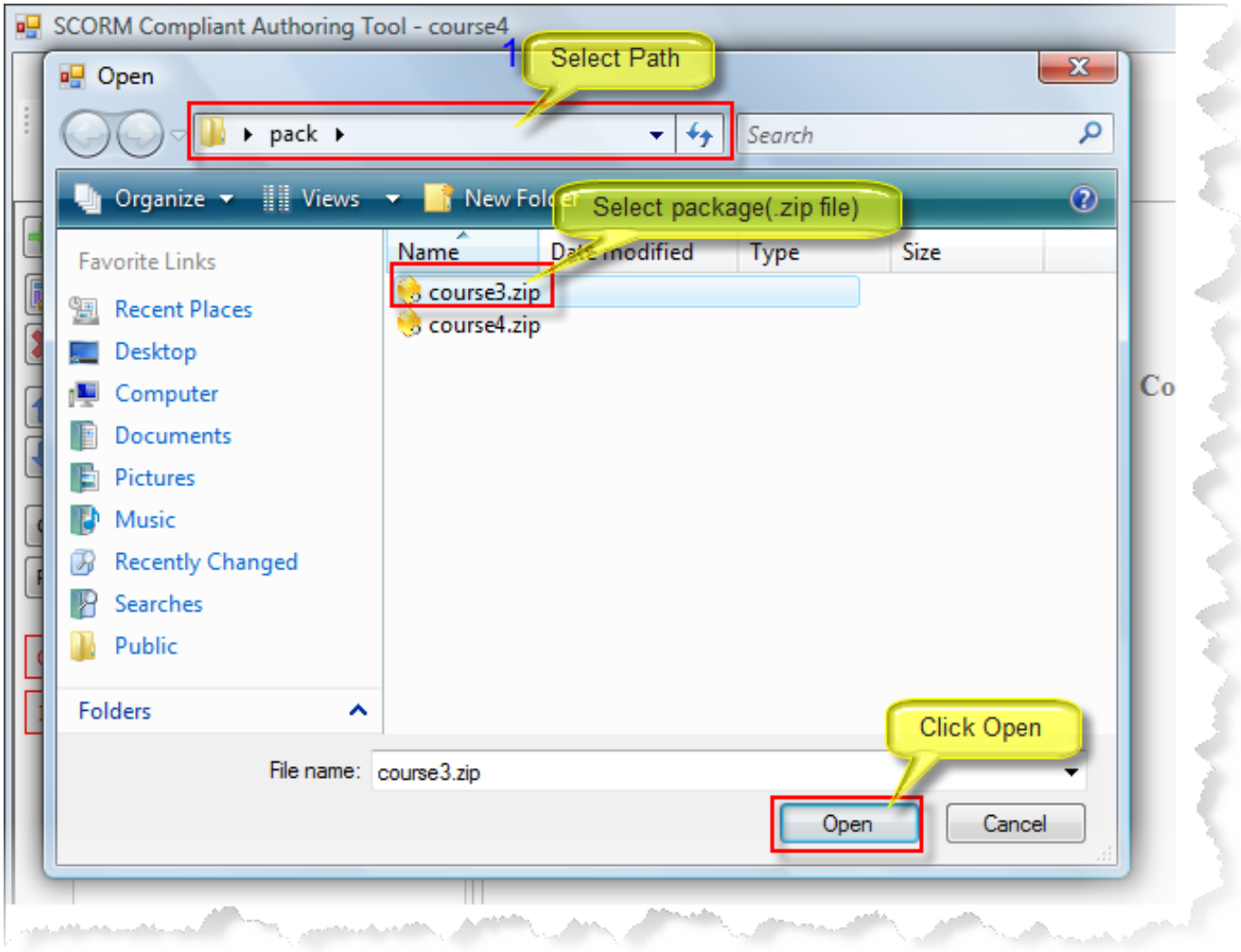
3-Enter project name for the imported course .

Look at the following figure:



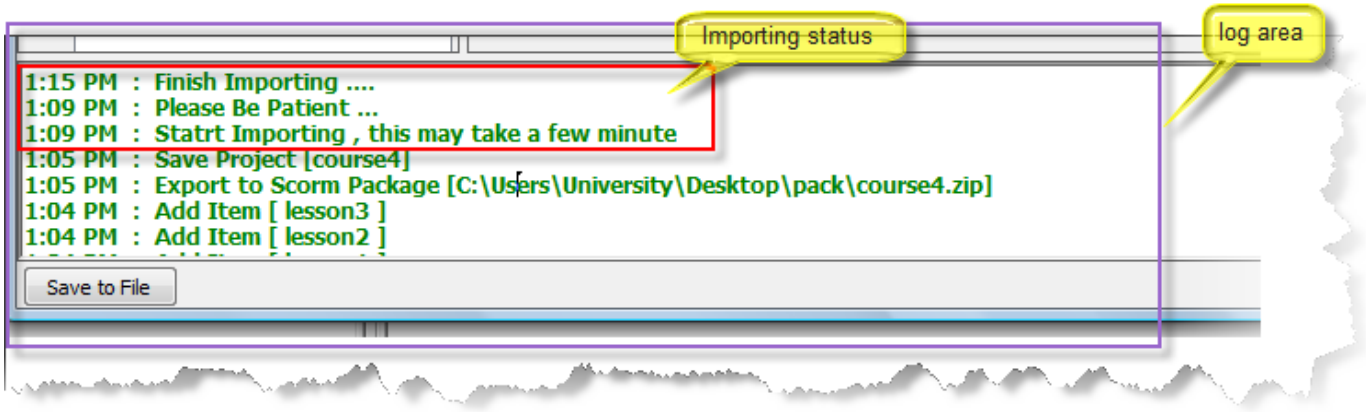
4- Select SCORM package to import it .

Look at the following figure:



Note : To make sure that your package is imported successfully you can review the log area in the bottom of the program

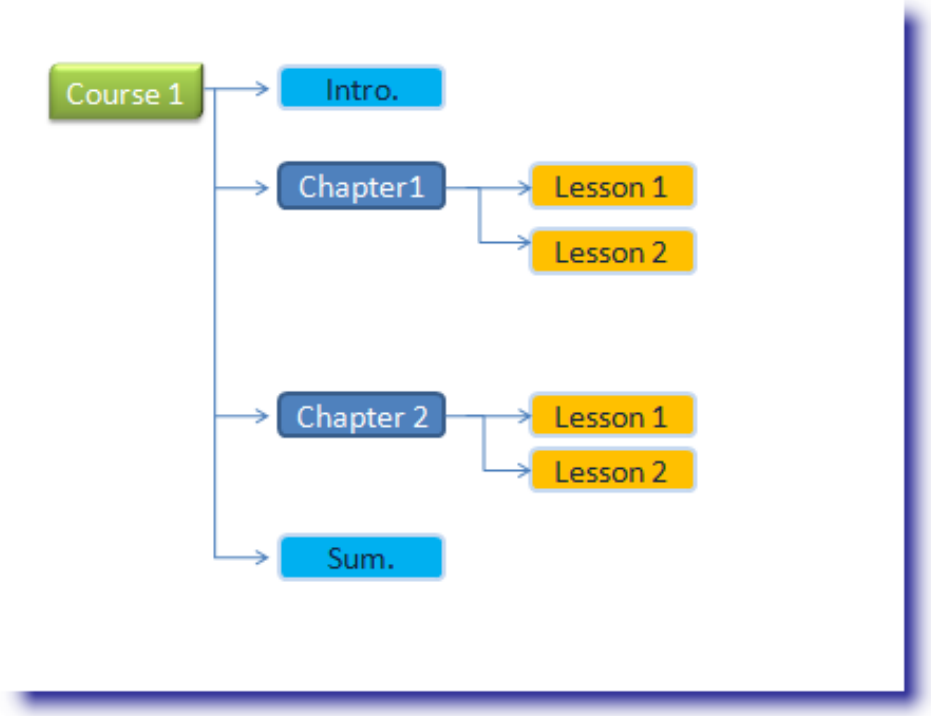
Look at the following figure:


Importing status
log area
1:15 PM : Finish Importing ....
1:09 PM : Please Be Patient ...
1:09 PM : Statrt Importing , this may take a few minute
1:05 PM : Save Project [course4]
1:05 PM : Export to Scorm Package [C:\Users\University\Desktop\pack\course4.zip]
1:04 PM : Add Item [lesson3]
1:04 PM : Add Item [lesson2]
Save to File

Create Sample Course

In this tutorial we will create sample course that consists of introduction, two chapters and summary, each chapter contain 2 lessons

The course will be as the following hierarchy.



1- Create a new project.

2- Select *Base* node and click *Add* item enter *Course 1* in the course name.

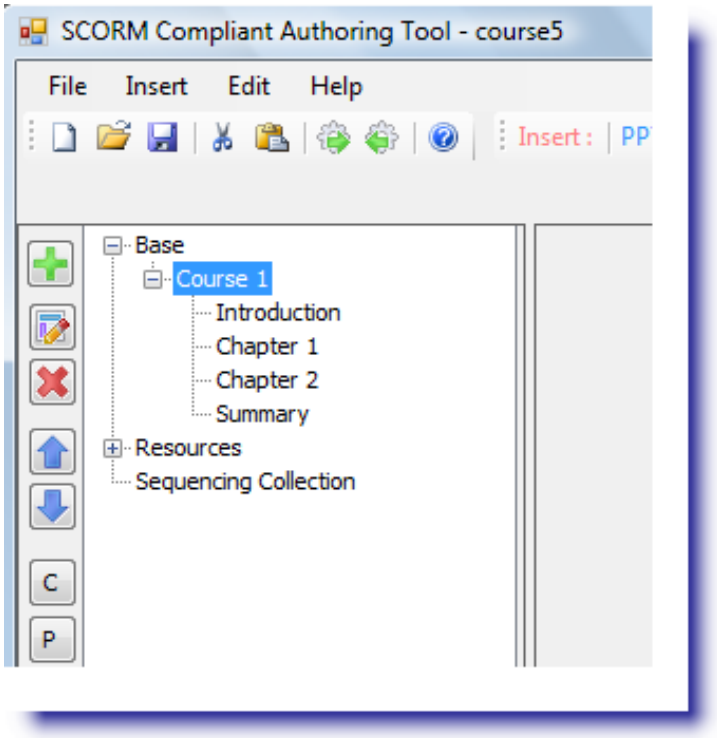
3- Expand *Base* node and select *Course 1* node then Click Add item, enter *Introduction* in the item name text field, check *Add a Recourse* checkbox, and click *OK*.

4- Click *Add* item, enter *Chapter 1* in the item name text filed, make sure that the *Add a Resource* is unchecked, and click *OK*.

5- Click *Add* item, enter *Chapter 2* in the item name field, make sure that *Add a Resource* is unchecked, and click *OK*.

6- Click *Add* item, enter *Summary* in the item name text field, check *Add a Resource* checkbox, and click *OK*.

The *Tree Node* will be as following:



7- Select *Introduction* node and then enter the introduction you want.

8- Select *Chapter 1* node, click *Add*, enter *Lesson 1* in the item name text field, check *Add a Resource* and click *OK*.

9- Select *Chapter 1* node, click *Add*, enter *Lesson 2* in the item name text field, check *Add a Resource* and click *OK*.

10- Select *Chapter 2* node, click *Add*, enter *Lesson 1* in the item name text field, check *Add a Resource* and click *OK*.

11- Select *Chapter 2* node, click *Add*, enter *Lesson 2* in the item name text field, check *Add a Resource* and click *OK*.

12- Expand *Chapter 1* node, select *Lesson 1* node, and then enter chapter1_lesson1 content.

13- Make sure that *Chapter 1* node is still expanded the select *Lesson 2* node and then enter chapter1_lesson2 content.

14- Expand *Chapter 2* node, select *Lesson 1* node, and then enter chapter2_lesson1 content.

15- Make sure that *Chapter 2* node is still expanded the select *Lesson 2* node and then enter chapter2_lesson2 content.

16- Select Summary node and then enter the content you want in the summary item

17- Save project.

18- Export course package, enter name of package as you want e.g. *Course1.zip*.

Now your course is ready to be uploading on any SCORM LMS (learning management system that support SCORM standard).

Note: chapter1_lesson1, chapter1_lesson2, chapter2_lesson1 and chapter2_lesson2 can be any content you want to add.

Create Course With Simple Sequencing

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