IOS - ACTIONS AND OUTLETS

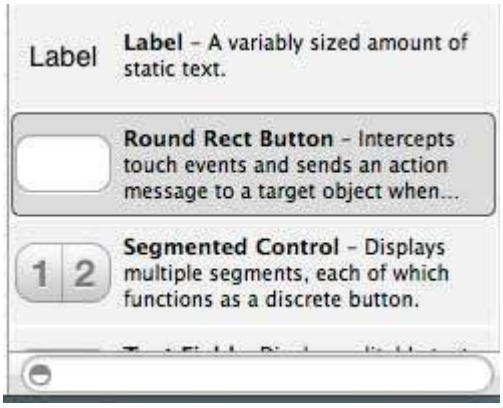
Actions and outlets in iOS are referred to as **ibActions** and **ibOutlets** respectively, where **ib** stands for interface builder. These are related to the UI elements and we will explore them after knowing visually how to implement them.

Actions and Outlets – Steps Involved

Step 1 − Let's use our First iPhone Application.

Step 2 − Select the ViewController.xib file from the files in the navigator section.

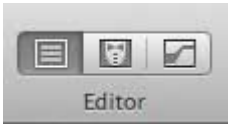
Step 3 − Now, you can select the UI elements from the library pane in the right hand side of our window, which is shown below.



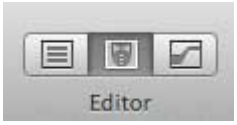
Step 4 − You can drag and drop the UI elements to our view in our interface builder.

Step 5 − Let us add a Label and Round Rect Button to our view.

Step 6 − From the Editor Selector button in the workspace toolbar found on the top right corner as shown below.

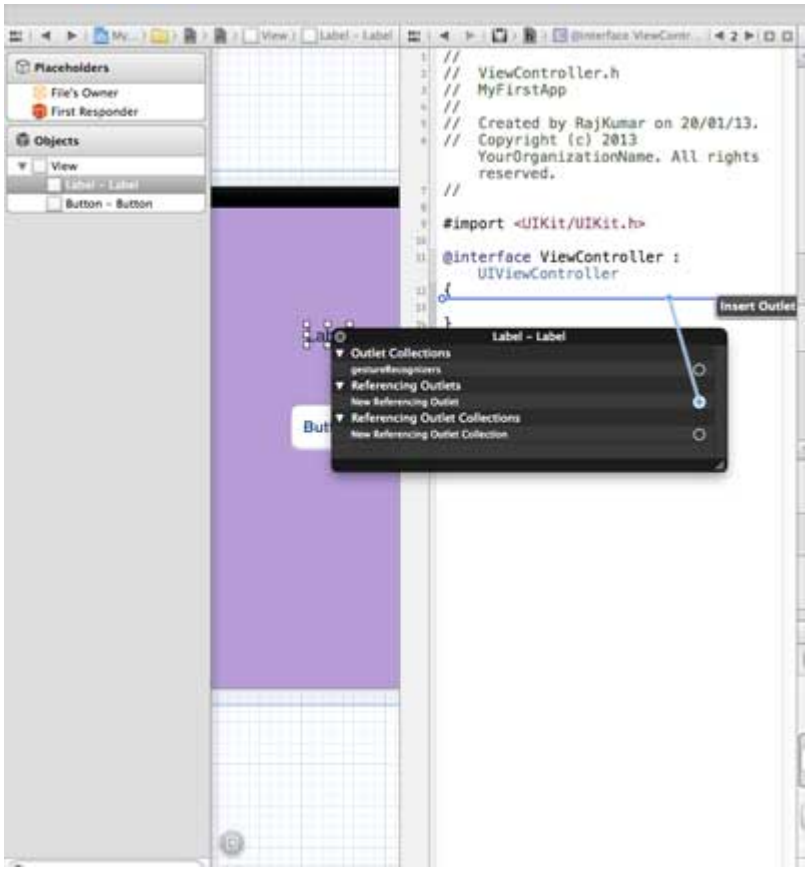


Select Assistant editor button.

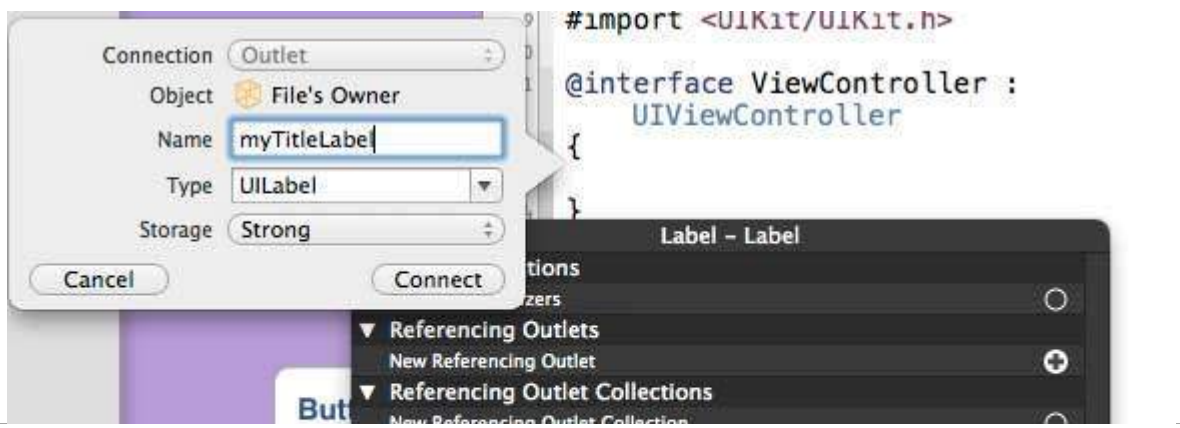


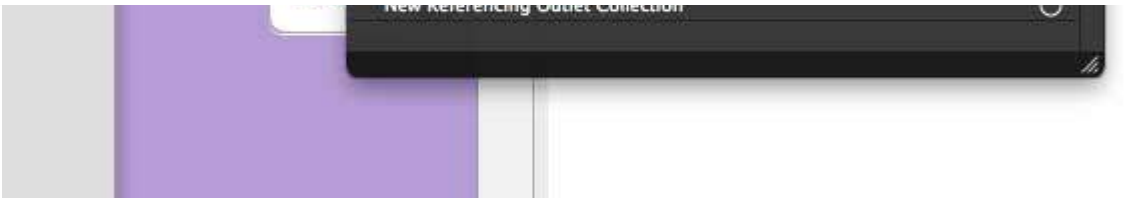
Step 7 − We will see two windows in our editor area in the center, one is ViewController.xib file and the other is ViewController.h.

Step 8 − Now, right click on the label and select, hold and drag the new referencing outlet as shown below.



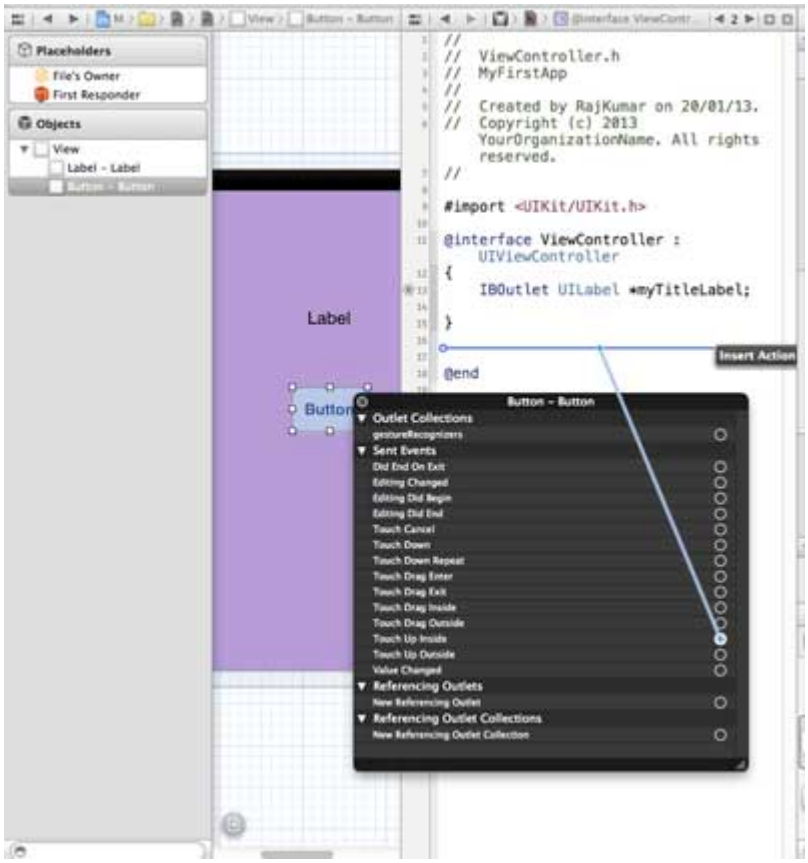
Step 9 − Drop in the ViewController.h in between the curly braces. In case there are no curly braces in the file, add the ViewController before doing this. You will find a pop-up as shown below.



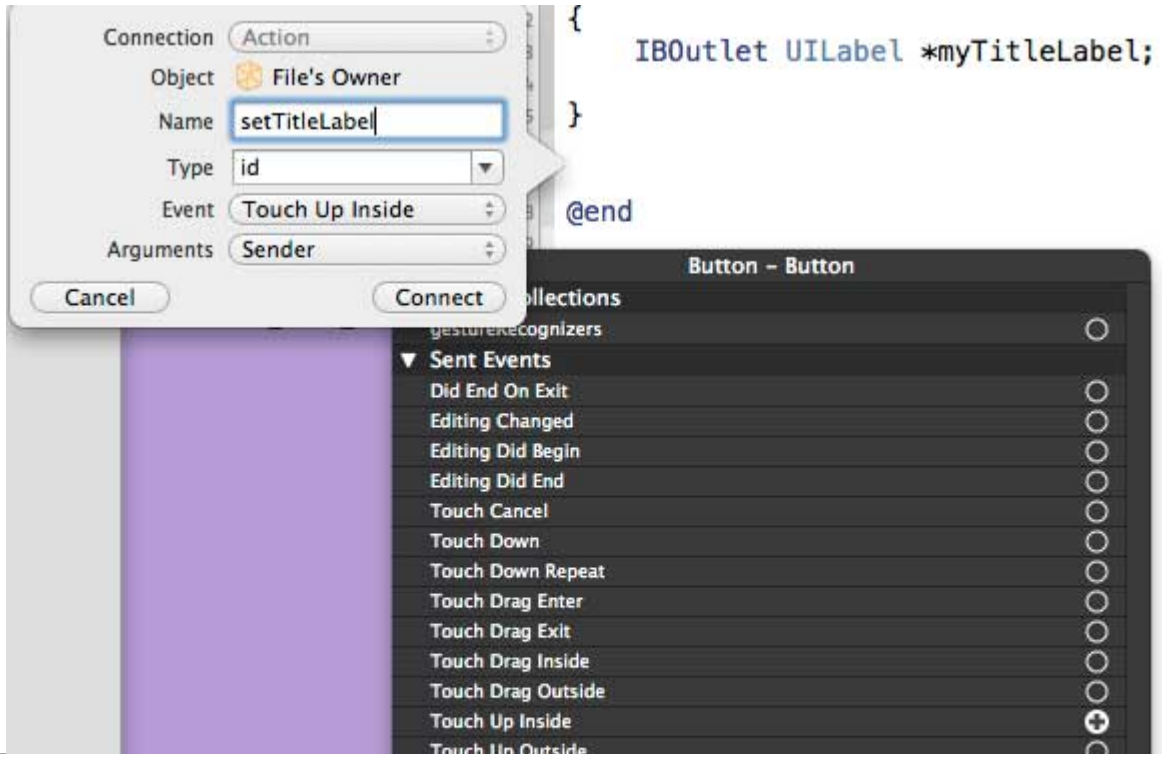


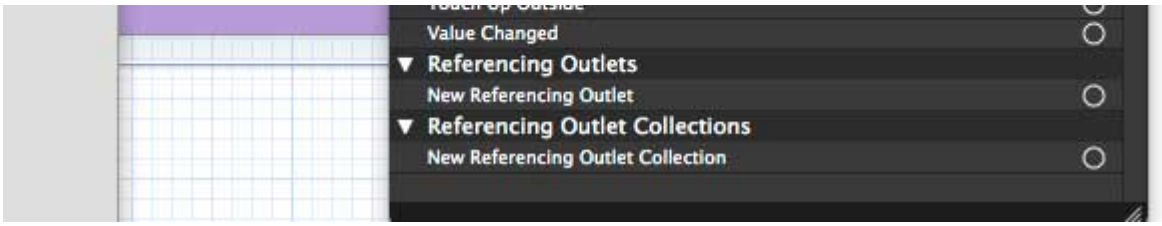
Step 10 − Type the label name for the outlet, here we have used the label myTitleLabel. Click connect and the ibOutlet will be complete.

Step 11 − Similarly, to add an action, right click the Round rect button, select touch up inside and drag it below the curly braces.



Step 12 − Drop it and name it setTitleLabel.





Step 13 − Select ViewController.m file, you'll find a method as shown below.

```
-(IBAction) setTitleLabel:(id)sender{
}
```

Step 14 − Add a statement as shown below inside the above method.

```
[myTitleLabel setText:@"Hello"];
```

Step 15 − Let us now run the program by selecting the run button. You will see the following output.

Step 16 − Now click the button.

Step 17 − The label that we created have been changed by the action on the button.

Step 18 From the above example, we can conclude that IBOutlet creates a reference to the UIElement *hereforetheUILabel*. Similarly, the IBAction links the UIButton with a method, which is called on the event touch up inside.

Step 19 − You can play around with actions by selecting different events while creating the action.