**CHAPTER 3 - JAVA SWING PROJECT**

**Here you need to initialize a count that will keep track of the score** :

1. Create a function with return type boolean and it will consist of the if statement that will check the value of current.
2. If the statement is correct then it will return the option[i].isSelected() so that if option[i] is selected it will be one and hence the function will return 1.
3. Write an if statement in the ActionPerformed so the value of count will get incremented when if(check) i.e. check is returning 1 that is the right answer is selected.
4. Also else statement within check function will be false.

**Creating the Result Button** :

1. For creating Result Button you need to create a button using class JButton and use the constructor to label it as “Result”.
2. Then set the bounds for the button I have kept all the coordinates same except the X one which is kept as 250

(150 units away from the Next Button)

1. I have initially disabled the Result Button using isEnabled function
2. I enable it when the value of current is 9 and disable the next Button.

**If Result button is pressed** :

1. If the result is button is pressed then in ActionPerformed e.getSource == b2 that means Result button is pressed if so then we will display the dialog box.
2. This dialog box will show the marks allotted after taking the quiz.
3. For this we will use OptionPane.showMessageDialog(this,"Correct Answers ="+count);

**Providing Dialog Box** :

**Java JOption Pane** : Java JOption Pane is used to provide Dialog boxes - message dialog box, conform dialog box, input dialog box, these are used to display information and get input from the user.(**what**)

**static void showMessageDialog(Component parentComponent, Object message)** :

It is used to create an information-message dialog titled "Message".

**Common queries** :

1. **Why are we returning false at the end in the check box ?**

If suppose the answer that we selected is wrong then the value of count should not be incremented but the program should be carried further, it should not halt therefore we are writing return false so as to stop the program from halting.

1. **Why have we have called the function set two times** ?

First time when current = 0 we don’t press next so program control is not transferred to set function so the value of label and option isn’t set therefore we are explicitly calling the set function.