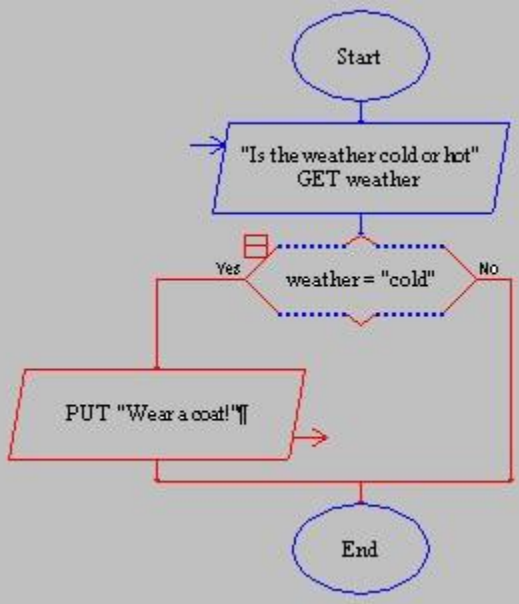
Lesson 3 Lab 3.3 – Flowcharts

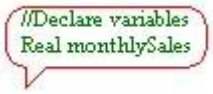
Critical Review

The flowchart symbol used to indicate some condition is a diamond. An if statement is called a single alternative decision structure. The code will only process if the decision is true.

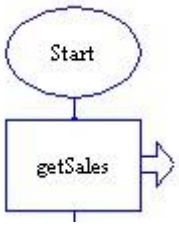


This lab requires you to convert your pseudocode in Lab 3.2 to a RAPTOR flowchart.

Step 1: Start Raptor and save your document as *Lab 3-3*. The *.rap* file extension will be added automatically. Start by adding a Comment box that declares your variables. Here is how your Comment box should look.

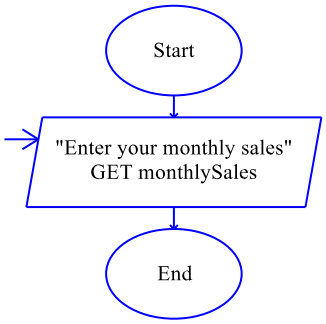


Step 2: The next step in your flowchart should be to call your methods. Below is a start of how your main should look.

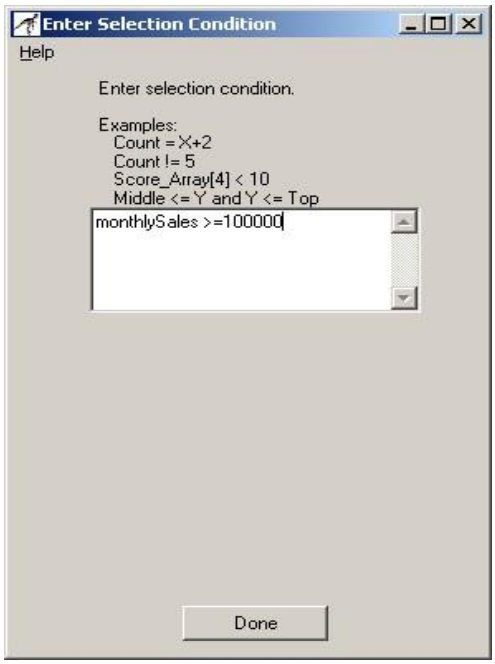


Step 3: Continue this process to add your additional methods you defined in Lab 3.2, Step 3.

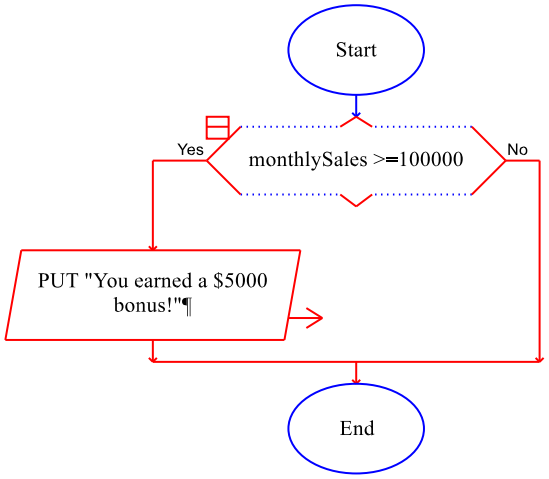
Step 4: Click on the getSales tab and add the necessary code to enter the monthly sales. Your getSales method might look like the following:



Step 5: Click on the second module which determines if a bonus of $5000 is awarded. Click the Selection symbol and add it between the start and the end of the module. Double click on the diamond symbol and add the code to determine if monthlySales is greater than or equal to 100000. The enter selection condition should be written as follows:



Step 6: Drag an output symbol and drop it on the True line. Double click on the output box and add text that prints "You earned a $5000 bonus!". Your module should like as follows:



Step 7: Repeat the process in Step 6 to code your next module.

Step 8: When your program is complete, test the following monthly sales and ensure that the output matches the following. If your output is different, then review your decision statements.

Monthly Sales	**Expected Output**
monthlySales = 102500	You earned a $5000 bonus!
monthlySales = 90000	<nothing>
monthlySales= 112500	You earned a $5000 bonus! All employees get one day off!!!

Step 9: The final step is to execute your program so that it works and upload the final RAPTOR (.rap) file as your assignment submission.