**FOP 1 – Lab 4 Worksheet**

1. Type and run all the programs and examples from the lecture notes (at home).
2. Write a program that prompts the user to enter his/her name, takes input from the user and then prints a message back “Hello [whatever the name]!” only if the name inputted contains the character ‘a’ or the character ‘c’.
3. Write another program that takes 3 integers from the user and displays the value of the sum only if the sum is positive; if the sum is negative, then it should display “the sum is negative”.
4. Write a program that reads in 3 floating­point numbers and (using 2 if statements) identifies the largest of the three inputs and then prints it. For example, if the user enters 4, 9.0, and 2.5, the program should output “The largest number is 9.0”.
5. Write a program that allows the user to input a temperature and also to input either the temperature should be converted to Celsius or to Fahrenheit degrees; the program should then output the temperature either in Celsius or in Fahrenheit using one of the conversion formulas: **celsius\_degrees = (fahrenheit\_degrees – 32) \* 5 / 9** or **fahrenheit\_degrees = (9 / 5 \* celsius\_degrees) + 32**.