**Name: Session:**

**Programming I**

**Lab Exercise 9/4/2024**

Using Python, solve the following problems. Submit your documented source code. Your source code should have at minimum the following documentation:

#Name of program (i.e. Lab Exercise 9.5.2019 Problem 4)

#Author: Mary Wilson

#Brief description of program

1. Solve the following problems by writing a small program:
2. Three people ate dinner at a restaurant and want to split the bill. The total is $35.27. They want to leave a 15 percent tip. How much should each person pay?
3. Calculate the area and perimeter of a rectangular room, 12.5 meters by 16.7 meters.

2. Write a program to convert temperatures from Fahrenheit to Celsius. The formula for

that is: C = 5 / 9 \* (F – 32). If you enter 212o F you should get 100 o C

3. Write a program to convert temperatures from Celsius to Fahrenheit. The formula for

that is: C = 9 / 5 \* C + 32). If you enter 100o C you should get 212 o F

4. Do you know how to figure out how long it will take to get somewhere in a car? The formula (in words) is “travel time equals distance divided by speed”. Create a program to calculate the time it will take to drive 350 miles at 65 miles per hour and display the answer.

5. Write a program that will allow the user to enter their height in inches and then displays their height in feet and inches. For example 66 inches will display 5 feet 6 inches.