**Name: Session:**

**Programming I**

**Lab Exercise 9.18.2019**

Using Python, solve the following problems. Print out your documented source code and attach to this sheet to turn in. Your source code should have at minimum the following documentation:

#Name of program (i.e. Lab Exercise 9.18.2019 Problem 1)

#Author: Mary Wilson

#Brief description of program

1. Write a function that will allow you to print any name, address, street, city, state or province, zip or postal code, and country in the world. (Hint: It needs seven arguments. You can pass them as individual arguments or as a list.)
2. Write a function to calculate the total value of some change—quarters, dimes, nickels, and pennies. The function should return the total value of the coins. Then write a program that calls the function. The output should look like this when it runs:

quarters: 3

dimes: 6

nickels: 7

pennies: 2

total is $1.72

1. Write program that calculates the area and perimeter of a rectangle given the length and width using functions *area* and *perimeter* that return the surface area and volume of a sphere. Use the following equations:



1. Write program that calculates the surface area and volume of a sphere given the radius of the sphere using functions *sphereArea* and *sphereVolume* that return the surface area and volume of a sphere. Use the following equations:



1. Write a program that has a function that returns True if a number sent to it is prime and False if the number is not.
2. Write a program that has a function that is passed an amount of money and returns the number of quarters, dimes, nickels, and pennies to make up that amount.