**Module 3: Lab Activity – Programming**

**Deliverables:**

* Python program solutions to the following 7 problems

**Make Sure You:**

* Add comments

# Your name

# The date

# What the program does

* Test your program
* Fix any bugs (try out the debugging techniques you read about)

**Problem 1** – Write a program that prints “Hello World” to the screen.

>>> print("hello world")

hello world

**Problem 2** – Write a program that asks the user for their name and greets them with their name.

>>> print("whats your name?")

whats your name?

>>> n = input("Please enter your name: ")

Please enter your name:

>>> print("Hello" , n)

**Problem 3** – Modify the previous program such that only the users you and your instructor are greeted with their names.

name = input(“what’s your name: >> “)

Teacher= professor tovar

Student = larry

If name == professor tovar:

>>> print(“Hello professor)

elif == larry:

>>> print(“Hello larry")

Else:

>>>print(“goodbye”)

**Problem 4** - Write a program that will compute the area of a circle. Prompt the user to enter the radius and print a nice message back to the user with the answer.

>>> radius = input("Please enter the radius: ")

>>> radius = int(radius)

>>> print(radius\*radius\*3.14)

>>> print("Good job")

**Problem 5** - Write a program that will compute MPG for a car. Prompt the user to enter the number of miles driven and the number of gallons used. Print a nice message with the answer.

>>> miles = input("please enter the miles travelled: ")

>>> miles = int(miles)

>>> gallon = int(gallon)

>>> print("your miles per gallon is below")

>>> print(miles/gallon)

>>> print("Have a nice day")

**Problem 6** - Write a program that will convert degrees Fahrenheit to degrees Celsius.

>>> F = input("How many degrees farenheit is it?: ")

>>> F = int(farenheit)

>>> print("converting to celsius")

**Problem 7** - It is possible to name the days 0 through 6 where day 0 is Sunday and day 6 is Saturday. If you go on a wonderful holiday leaving on day number 3 (a Wednesday) and you return home after 10 nights you would return home on a Saturday (day 6) Write a general version of the program which asks for the starting day number, and the length of your stay, and it will tell you the number of day of the week you will return on.

0 = int(Sunday)

1 = int(Monday)

2 = int(Tuesday)

3 = int(Wednesday)

4 = int(Thursday)

5 = int(Friday)

6 = int(Saturday)

7 = int(Sun)

8 = int(Mon)

9 = int(Tues)

10 = int(Wed)

11 = int(Thur)

12 = int(Fri)

13 = int(Sat)

D = input(“What day did you leave? Enter the full word: “)

Print((D + 10)