**Module 3: Lab Activity – Programming**

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

#This program was written by Jordan on 2/2/20

#This program prints Hello World to the screen

***print (“Hello World”)***

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

#This program was written by Jordan on 2/2/20

#This program allows the user to log in

***name = str(input (“What is your name?”))***

***print (“Hello”, name)***

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

#This program was written by Jordan on 2/2/20

#This program allows only Jordan and the instructor to log in

***name = str(input (“What is your name?”))***

***if name = “Jordan”:***

***print (“Hello, Jordan”)***

***elif name = “Instructor”:***

***print (“Hello, Instructor”)***

***else:***

***print (“eff off”)***

**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.

#This program was written by Jordan on 2/2/20

#This program computes the area of a circle

***radius = int(input(“What is the radius?”))***

***area = 3.14\*radius\*\*2***

***print (“Your answer is”, area)***

**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.

#This program was written by Jordan on 2/2/20

#This program computes MPG for a car

***miles = int( input (“Enter number of miles”))***

***gallons = int(input (“Enter number of gallons”))***

***mpg = miles/gallons***

***print (“Your answer is”, mpg)***

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

#This program was written by Jordan on 2/2/20

# This program converts Farenheit to Celsius

***far = “degrees fahrenheit”***

***cel = “degrees celsius”***

***x = (far -30)/2***

***print (“x”)***

**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.

#This program was written by Jordan on 2/2/20

#This program is annoying

sunday = 0

monday = 1

tuesday = 2

wednesday = 3

thursday = 4

friday = 5

saturday = 6

start = int(input(“Enter 3”))

length = start + 10

day =