1. **Create the pseudocode for a program that will input the radius of a circle, and then calculate and print the area of the circle. The formula is as follows: Area = Pi \* Radius2. (10 Marks)**

**####################################################################**

Read Radius of circle

PI = 3.14159

Area = PI \*Radius\*\*2

Print (“The area of the circle is %.2f”%(Area))

1. **Create the pseudocode for a program that will input *four* marks and calculate the average. Use repetition in your solution. Print out congratulations if the mark is over 80.**

**####################################################################**

Total=0

For mark in range (4):

Read mark1, mark2, mark3, mark4

Total = Total + mark

Average = (Total/4)

if Average > 80:

print(“Congratulations!”)

else:

print(“Better luck next time!”)

1. **Using pseudocode create a program that will take temperature in either Fahrenheit (F) or Centigrade (C) and convert it to the other. The formulas are as follows:**

**C = (F - 32) / 1.8**

**F = C × 1.8 + 32**

**The user will input either an “F” to indicate that the input temperature is Fahrenheit or a “C” to indicate that the input temperature is Centigrade. If the temperature is “F” convert it to “C”, if “C” Convert it to “F”.**

**Output the results with a message that states: “ \_\_\_ degrees C is equal to \_\_\_ degrees F”. (10 Marks)**

**####################################################################**

Read temperature in Fahrenheit or Centigrade

if Temperature == 'c':

Read degrees

Fahrenheit = degrees \* 1.8 + 32

print("%.2f degrees C is equal to %.2f degrees F."%(degrees, Fahrenheit))

else:

Read degrees

Centigrade = (degrees-32)/1.8

print("%.2f degrees F is equal to %.2f degrees F."%(degrees, Centigrade))