Programming assignment Unit 2:

The code bellow is a function that take one parameter (r) as radius of circle, calculate the circumference of the circle based on that radius value, store the result in local variable of float data type called (circumference), and then print the result.

Part1

Code:

def print\_circum(r):

circumference = 2 \* 3.14159 \* r

print(" The circumference is:", circumference)

First call: In this call I passed (2) as argument to print\_circum() and the output shows the result.

print\_circum(2):

Output:

The circumference is: 12.56636

Second call: In the second call I have passed the float (3.5) as argument.

print\_circum(3.5):

Output:

The circumference is: 21.99113

Third call: Here I have passed four decimal places float (4.0045) as argument.

print\_circum(4.0045):

Output:

The circumference is: 25.16099431

Part2

The code bellow is a function that print the catalog of our online store, and it work as follows:

1. In the first two lines, the discount offers offered by the store are calculated as 10% and 25%.
2. The next three lines are the price of each product
3. The next four lines are the calculation of combo offers. 1,2, and 3 are -10%, and the 4th is -25%. This is done by multiplying the group by its appropriate deduction calculated in the first.
4. The rest of code is the model of the catalog.

Code:

def online\_store\_catalog():

discount\_25 = 25 / 100

discount\_10 = 10 / 100

item1 = 250.0

item2 = 370.0

item3 = 600.0

#Combo offers after applying the discount

combo1 = (item1 + item2 - ((item1 + item2) \* discount\_10))

combo2 = (item2 + item3 - ((item2 + item3) \* discount\_10))

combo3 = (item1 + item3 - ((item1 + item3) \* discount\_10))

combo4 = (item1 + item2 + item3 - ((item1 + item2 + item3) \* discount\_25)

print("Online Store")

print("-" \* 30)

print("Products", " " \* 28, "Price")

print("Item 1", " " \* 30, item1)

print("Item 2", " " \* 30, item2)

print("Item 3", " " \* 30, item3)

print("Combo 1(Item 1 + Item 2)", " " \* 12, combo1)

print("Combo 2(Item 2 + Item 3)", " " \* 12, combo2)

print("Combo 3(Item 1 + Item 3)", " " \* 12, combo3)

print("Combo 4(Item 1 + Item 2 + Item 3)", " " \* 3, combo4)

print("-" \* 30)

print("For delivery contact: 154007910\n")

Output:

Online Store

------------------------------

Products Price

Item 1 250.0

Item 2 370.0

Item 3 600.0

Combo 1(Item 1 + Item 2) 558.0

Combo 2(Item 2 + Item 3) 873.0

Combo 3(Item 1 + Item 3) 765.0

Combo 4(Item 1 + Item 2 + Item 3) 915.0

------------------------------

For delivery contact: 154007910