### **ASSIGNMENT-3**

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Q) Assignment 3 (91) Write a program to display a menu for calculating our a of a circle OR perimeter of a circle Sample Input 1 Enter radius of the circle : 2.5 1. Calculate Area
2. Calculate Perimeter Enter your choice (1 or 2 ): 1
Area of circle with radius 2.5 is 19.6349375 sample Input 2 Enter radius of the circle : 2.5 1. Calculate Area
2. Calculate Perimeter
Enter your choice (1 or 2 ): 2
Perimeter of circle with radius 2.5 is 15.70795 (92) Parogram to find the multiples of a number (the divisor) out of given 5 numbers. Enter five numbers below First number: 185 Second number: 3450 Third number: 1235 Fourth number: 1100 Fifth number: 905 Enter divisor number : 15 Multiples of 15.0 are : 3450.0 1 multiples of 15.0 found 93) Wou'te a priogram to create a basic

#### **CODE:**

```
import math
a=float(input("Enter radius of the circle:"))
print("1.Calculate Area")
print("2.Calculate perimeter")
b=int(input("Enter your choice (1 or 2):"))
if(b==1):
    area=math.pi*a*a
    print("Area of circle with radius {} is area {} ".format(a,area))
if(b==2):
    perimeter=2*math.pi*a
    print("Perimeter of circle with radius {} is area
    {}".format(a,perimeter))
```

### **Sample output:**

```
Enter radius of the circle:2.5
1.Calculate Area
2.Calculate perimeter
Enter your choice (1 or 2):2
Perimeter of circle with radius 2.5 is area 15.707963267948966
```

Q2)

#### CODE:

```
print("Enter five numbers below")

n1=float(input("First number:"))
n2=float(input("Second number:"))
n3=float(input("Third number:"))
n4=float(input("Fourth number:"))
n5=float(input("Fifth number:"))
div=int(input("Enter divisor number:"))
count=0
s=""
if(n1%div==0):
    s=s+(str)(n1)+" "
    count=count+1
if(n2%div==0):
    s=s+(str)(n2)+" "
    count=count+1
```

### Sample output:

1) Enter five numbers below

```
First number:5
Second number:10
Third number:15
Fourth number:21
Fifth number:20
Enter divisor number:5
Multiple of 5.0 are:5.0 10.0 15.0 20.0
4 multiples of 5.0 are found
```

2) Enter five numbers below

```
First number:185
Second number:3450
Third number:1100
Fourth number:1235
Fifth number:905
Enter divisor number:15
Multiple of 15.0 are:3450.0
1 multiples of 15.0 are found
```

#### Code:

```
import math
print("1.Addition\n2.Substraction\n3.Multiplication\n4.Division\n5.Power\
n6.Absolute value\n")
a=int(input("Select an option from 1 to 6:"))
if(a==1):
     n1=float(input("Enter number1:"))
     n2=float(input("Enter number2:"))
     print(n1+n2)
if(a==2):
     n1=float(input("Enter number1:"))
     n2=float(input("Enter number2:"))
     print(n1-n2)
if(a==3):
     n1=float(input("Enter number1:"))
     n2=float(input("Enter number2:"))
     print(n1*n2)
if(a==4):
     n1=float(input("Enter number1:"))
     n2=float(input("Enter number2:"))
     print(n1/n2)
if(a==5):
     n1=float(input("Enter base value:"))
     n2=float(input("Enter exponent values:"))
     print(n1**n2)
if(a==6):
     n1=float(input("Enter any number:"))
     print(abs(n1))
```

## Sample output:

```
1) 1.Addition
2.Substraction
3.Multiplication
4.Division
5.Power
6.Absolute value

Select an option from 1 to 6:1
Enter number1:12
Enter number2:12
24.0
```

# 2) 1.Addition

- 2.Substraction
- 3.Multiplication
- 4.Division
- 5.Power
- 6.Absolute value

Select an option from 1 to 6:2 Enter number1:12 Enter number2:9 3.0

# 3) 1.Addition

- 2.Substraction
- 3.Multiplication
- 4.Division
- 5.Power
- 6.Absolute value

Select an option from 1 to 6:6 Enter any number:-12 12.0