**Assignment 1.2 [ input statement and operators ]**

1. Write a python program to evaluate the expression

4x^4 + 3y^3 -9z + 6

1. Write a python program to take a input in uppercase and change it to lower case

s=input("Enter a Text in upper case")

print("String you enter ",s)

print("in lowercase" ,s.lower())

**output**

Enter a Text in upper caseMANAS

String you enter MANAS

in lowercase manas

1. Write a python program to input the radius of a circle and print its area and perimeter.

import math

r=float(input("Enter the radius of the circle"))

print("The perimeter of the circle is ", 2\*r\*math.pi)

**output**

Enter the radius of the circle4.3

The perimeter of the circle is 27.01769682087222

1. Write a python program to input marks in 5 subjects of a student and print its average mark.

sum=0

for i in range(5):

mark=int(input("Enter the mark"))

sum+=mark

print("The avarage mark of Student is ",sum//5)

**output**

Enter the mark50

Enter the mark60

Enter the mark90

Enter the mark95

Enter the mark43

The avarage mark of Student is 67

1. Write a python program to input a number and print its square, cube and fourth power.

x=int(input("Enter a number"))

print("square of ",x,"=",x\*\*2)

print("cube of ",x,"=",x\*\*3)

print("forth of ",x,"=",x\*\*4)

**output**

Enter a number5

square of 5 = 25

cube of 5 = 125

forth of 5 = 625

1. Write a python program to input the sides of a triangle and print its area.

a=float(input("Enter the first side of tringle"))

b=float(input("Enter the second side of tringle"))

c=float(input("Enter the third side of tringle"))

s=(a+b+c)/2

area= (s\*(s-a)\*(s-b)\*(s-c)) \*\* 0.5

print("The area of the triangle is ",area)

**output**

Enter the first side of tringle5

Enter the second side of tringle6

Enter the third side of tringle7

The area of the triangle is 14.696938456699069

1. Write a python program to compute SI and CI.

p=float(input("Enter the principle amount"))

t=float(input("Enter the time in years"))

r=float(input("Enter the rate of intrest"))

si=(p\*t\*r)/100

ci=p\*(1+r/100)\*\*t -p

print("SI=",si,"\nCI=",ci)

**Output:**

Enter the principle amount5000

Enter the time in years5

Enter the rate of intrest200

SI= 50000.0

CI= 1210000.0

1. Ask the user to enter a number x. Use the sep optional argument to print out x, 2x, 3x, 4x,and 5x, each separated by three dashes, like below.

Enter a number: 7

7---14---21---28---35

x=int(input("Enter the number"))

print(x,2\*x,3\*x,4\*x,5\*x,sep="---")

**Output:**

Enter the number20

20---40---60---80---100