

# PYTHON LAB 2

## # Write a program for arithmetic operators

```
a=int(input("Enter the value of a: ")) #---->Taking an input from user
b=int(input("Enter the value of b: ")) #---->Taking an input from user
print ("Addition of two numbers", a+b)
print ("Substraction of two numbers", b-a)
print ("Multiplication of two numbers", a*b)
print ("Division of two numbers", b/a)
print ("Reminder of two numbers", b%a)
c=a**b
print (c)
c=a//b
print (c)
```

# <----- Output ----->

'''

Enter the value of a: 5

Enter the value of b: 6

Addition of two numbers 11

Substraction of two numbers 1

Multiplication of two numbers 30

Division of two numbers 1.2

Reminder of two numbers 1

15625

0

'''

### # Write a program for assignment operators

```
print("Using Assignment Operators: ")  
  
a=5  
  
print (a)  
  
a+=5  
  
print(a)  
  
a-=3  
  
print(a)  
  
a*=3  
  
print(a)  
  
a/=2  
  
print(a)
```

#<----- Output ----->

'''

Using Assignment Operators:

5

10

7

21

10.5

'''

### # Write a program for Bitwise operators

```
x=int(input("Enter the value of a: ")) #---->Taking an input from user  
y=int(input("Enter the value of b: ")) #---->Taking an input from user  
  
print(x & y)  
  
print(x | y)  
  
print(x ^ y)
```

```
print(~x)
```

```
print(~y)
```

```
#<----- Output ----->
```

```
'''
```

```
Enter the value of a: 4
```

```
Enter the value of b: 5
```

```
4
```

```
5
```

```
1
```

```
-5
```

```
-6
```

```
'''
```

**# Write a program to calculate greatest of three numbers.**

```
x=int(input("Enter First Number:")) #---->Taking an input from user
```

```
y=int(input("Enter Second Number:")) #---->Taking an input from user
```

```
z=int(input("Enter Third Number:")) #---->Taking an input from user
```

```
if(x>y):
```

```
    if(x>z):
```

```
        print("x is Greater")
```

```
    else:
```

```
        print("z is Greater")
```

```
else:
```

```
    if(y>z):
```

```
        print("y is Greater")
```

```
    else:
```

```
        print("z is Greater")
```

```
#<----- Output ----->
```

'''

Enter First Number:4

Enter Second Number:5

Enter Third Number:6

z is Greater

'''

**''' write a program to find the area of Rectangle '''**

l=int(input("Enter the length: ")) #---->Taking an input from user to store the length of Rectangle

b=int(input("Enter the breadth: ")) #---->Taking an input from user to store the breadth of Rectangle

AOR=l\*b #----> Area Of Rectangle

print("Area Of Rectangle is", AOR)

#-----Output----->

'''

Enter the length: 4

Enter the breadth: 5

Area Of Rectangle is 20

'''

**''' write a program to find the area of Circle '''**

pie=3.14 #--->Taking the value of pie

r=int(input("Enter the radius: ")) #----> taking an input from user to store the radius of circle

AOC=pie\*r\*r #--->Area Of Circle

print("Area Of Circle is ",AOC)

#-----Output----->

```
'''
```

```
Enter the radius: 6
```

```
Area Of Circle is 113.03999999999999
```

```
'''
```

**''' write a program to find the area of Triangle '''**

```
b=int(input("Enter the breadth: ")) #---->Taking an input from user to store the breadth o  
Triangle
```

```
h=int(input("Enter the height: ")) #----->Taking an input from user to store the height of  
Triangle
```

```
AOT=1/2*(b*h) #-----> Area of Triangle
```

```
print("Area of Triangle is ",AOT)
```

```
#-----Output----->
```

```
'''
```

```
Enter the breadth: 7
```

```
Enter the height: 8
```

```
Area of Triangle is 28.0
```

```
'''
```

**''' write a program to find the area of Square '''**

```
a=int(input("Enter the value of a : ")) #----->Taking an input from user to store the Value  
of Square
```

```
AOS=a*a #----->Area of Square
```

```
print("Area of Square is ",AOS)
```

```
#-----Output----->
```

'''

Enter the value of a : 9

Area of Square is 81

'''