

# Experiment No.7 - Assignment

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**Roll No. :27**

**Date :**

**Check Date :**

## Calculate Area of Triangle

```
In [1]: b=float(input('Enter Base : '))
h=float(input('Enter Height : '))
area=0.5*b*h
print('The area of Triangle is ',area)
```

```
Enter Base : 12
Enter Height : 6
The area of Triangle is  36.0
```

```
In [17]: b=float(input('Enter Base : '))
h=float(input('Enter Height : '))
area=(b*h)/2
print('The area of Triangle is ',area)
```

```
Enter Base : 12
Enter Height : 6
The area of Triangle is  36.0
```

## Calculate Area of Rectangle

```
In [2]: l=float(input('Enter length : '))
b=float(input('Enter breadth : '))
area=l*b
print('The area of Rectangle is ',area)
```

```
Enter length : 12
Enter breadth : 12
The area of Rectangle is  144.0
```

## Calculate Area of circle

```
In [3]: Pi=3.14
r=float(input('Enter radius '))
area=Pi*r*r
print('The area of Circle is ',area)
```

Enter radius 5  
The area of Circle is 78.5

## Calculate area of square

```
In [18]: a=float(input('Enter side : '))
area=a*a
print('The area of square is ',area)
```

Enter side : 12  
The area of square is 144.0

## Write a program to find union of two list

```
In [1]: list1={'r','a','v','i','n','a'}
list2={'m','a','n','e'}
print('list1 U list2 : ',list1.union(list2))
```

list1 U list2 : {'n', 'v', 'e', 'i', 'r', 'm', 'a'}

```
In [2]: A={'r','a','v','i','n','a'}
B={'27','SY','S2'}
print('A U B : ',A.union(B))
```

A U B : {'S2', 'SY', 'n', '27', 'v', 'i', 'a', 'r'}

```
In [3]: C={1,2,3,4,5,6}
D={11,12,13,14,15,16}
print('C U D : ',C.union(D))
```

C U D : {1, 2, 3, 4, 5, 6, 11, 12, 13, 14, 15, 16}

## Write a program to find intersection of two list

```
In [4]: S1={'ravina','maruti','mane','ravina',27}
S2={14,'ravina','mane','SY','union'}
S=S1.intersection(S2)
print(S)
```

{'mane', 'ravina'}

```
In [5]: a={1,2,3,4,5,6,7,8,9,10,14}  
b={14,15,16,17,7,5,3,8,56}  
c=a.intersection(b)  
print(c)
```

```
{3, 5, 7, 8, 14}
```

```
In [ ]:
```