In [1]:
```
#python program to design simple calculator for the operators
a=5
b=3
print(a+b)
print(a-b)
print(a*b)
print(a/b)
print(a%b)
print(a**b)
print(a//b)
```

```
8
2
15
1.6666666666666667
2
125
1
```

In [2]:
```
#python program to calculate simple interest
p=int(input("enter the principal amount "))
t=int(input("enter the time period "))
r=float(input("enter the rate of interest"))
si=p*t*r/100
print("the simple interest =",si)
```

```
enter the principal amount 1000
enter the time period 2
enter the rate of interest3.142
the simple interest = 62.84
```

In [4]:
```
#python program to calculate area of a circle
r=float(input("enter the radius of the circle"))
pi=3.1415
area=pi*r*r
print("area of a circle=",area)
```

```
enter the radius of the circle4
area of a circle= 50.264
```

In [5]:
```
#python program to calculate area of triangle
a=float(input("enter the side a of triangle"))
b=float(input("enter the side b of triangle"))
c=float(input("enter the side c of triangle"))
s=(a+b+c)/2
area=(s*(s-a)*(s-c)*(s-b))**.5
print("the area of the triangle is",area)
```

```
enter the side a of triangle8
enter the side b of triangle9
enter the side c of triangle10
the area of the triangle is 34.197039345533994
```

In [6]:
```
#python program to temperature in celsius to fahrenheit
celsius=int(input("enter the temperature in celsuis: "))
f=(celsius*1.8)+32
print("temperature in farenheit =",f)
```

```
enter the temperature in celsuis: 34
temperature in farenheit = 93.2
```

In [7]:
```
#python program to calculate area of rectangle
width=int(input("enter the width of a rectangle"))
height=int(input("enter the height of a rectangle"))
area=width*height
print("area of rectangle=",area)
```

```
enter the width of a rectangle6
enter the height of a rectangle4
area of rectangle= 24
```

In [8]:
```
#python program to calculate perimeter of a square
a=int(input(" enter 4 sides"))
perimeter=4*a
print("perimeter of a square is ",perimeter)
```

```
 enter 4 sides6
perimeter of a square is  24
```

In [9]:
```
#python program to calculate circumference of a circle
r=int(input("enter radius"))
pi=3.14
c=2*pi*r
print("circumference of a circle",c)
```

```
enter radius3
circumference of a circle 18.84
```

In [11]:
```
#python program to swap two numbers
a=int(input("enter value 1 "))
b=int(input("enter value 2 "))
print("before swaping a=",a,"b=",b)
a=a+b
b=a-b
a=a-b
print("after swaping a=",a,"b=",b)
```

```
enter value 1 9
enter value 2 8
before swaping a= 9 b= 8
after swaping a= 8 b= 9
```

In [ ]:
```

```