In [14]:
```
#1.Simple Calculator
print('enter\n1.addition\n2.subtraction\n3.multiplication\n4.division\n5.modulus\n6.exponent
\n7.floor division\n')
c=input('enter your choice')
if c in ('1','2','3','4','5','6','7'):
 a=float(input('enter value 1='))
 b=float(input('enter value 2='))
if c=='1':
 print('a+b=',a+b)
elif c=='2':
 print('a-b=',a-b)
elif c=='3':
 print('a*b=',a*b)
elif c=='4':
 print('a/b=',a/b)
elif c=='5':
 print('a%b=',a%b)
elif c=='6':
 print('a**b=',a**b)
elif c=='7':
 print('a//b=',a//b)
else:
 print('invalid choice')
```

```
enter
1.addition
2.subtraction
3.multiplication
4.division
5.modulus
6.exponent
7.floor division

enter your choice4
enter value 1=10
enter value 2=5
a/b= 2.0
```

In [19]:
```
#2.calculate simple intrest
p=float(input('enter the principle amount'))
t=float(input('enter the time'))
r=float(input('enter the rate'))
si= (p*t*r)/100
print('SI=',si)
```

```
enter the principle amount10000
enter the time2
enter the rate1
SI= 200.0
```

In [20]:
```
#3.calculate area of circle
r=float(input('enter the radius of circle\n'))
a= 3.142*r**2
print(a)
```

```
enter the radius of circle
2
12.568
```

In [27]:
```
#4.area of triangle
b=float(input('enter breath\n'))
h=float(input('enter height\n'))
a=0.5*b*h
print('\narea of triangle= ',a)
```

```
enter breath
3
enter height
2

area of triangle=  3.0
```

In [29]:
```
#5.conversion of temperature from Celsius to Fahrenheit
c=float(input('enter the temperature in Celsius '))
F=(c*(9/5))+32
print('temperature in Fahrenheit is 'F)
```

```
enter the temperature in Celsius 27
80.6
```

In [30]:
```
#6.area of a rectangle
l=float(input('enter the length\n'))
b=float(input('enter the breath\n'))
a=l*b
print('\narea of rectangle is ',a)
```

```
enter the length
2
enter the breath
2

area of rectangle is  4.0
```

In [34]:
```
#7.perimeter of square
a=float(input('enter the length \n'))
ar=4*a
print('\nperimeter of square is ',ar)
```

```
enter the length
2

perimeter of square is  8.0
```

In [35]:
```
#8.circumference of a circle
r=float(input('enter the radius\n'))
p=2*3.142*r
print('\ncircumference of circle is ',p)
```

```
enter the radius
2

circumference of circle is  12.568
```

In [36]:
```
#9.swapping of 2 numbers
a=float(input('enter a \n'))
b=float(input('enter b \n'))
print('before swapping\n a= ',a,'\tb= ',b)
a,b=b,a
print('after swapping \na =',a,'\tb= ',b)
```

```
enter a
2
enter b
3
before swapping
 a=  2.0        b=  3.0
after swapping
a = 3.0         b=  2.0
```

In [ ]: