

In [1]:

```
print('hello world')
```

hello world

In [6]:

```
a=10  
b=a*20  
print(b)
```

200

In [7]:

```
num1=2  
num2=3  
sum=num1+num2  
print(sum)
```

5

In [8]:

```
num1=input('enter first number')  
num2=input('enter second number')  
sum=float(num1)+float(num2)  
print(sum)
```

enter first number10
enter second number20
30.0

In [17]:

```
num=8  
num_sqrt=num**0.5  
print(num_sqrt)
```

2.8284271247461903

In [19]:

```
num=float(input('enter the number'))  
num_sqrt=num**0.5  
print('the square root of %f is %f'%(num,num_sqrt))
```

enter the number8
the square root of 8.000000 is 2.828427

In [32]:

```
import cmath
num=1+2j
num_sqrt=cmath.sqrt(num)
print('the square root of {0} is {1:0.3f}+{2:0.3f}j'.format(num,num_sqrt.real,num_sqrt.ima
```

the square root of (1+2j) is 1.27+0.786j

In [33]:

```
a=2
b=5
c=2
s=(a+b+c)/2
area=s*(s-a)*(s-b)*(s-c)**0.5
print('the area is %0.3f'%area)
```

the area is -8.894

In [38]:

```
a=float(input('enter first number '))
b=float(input('enter second number '))
c=float(input('enter first number '))
s=(a+b+c)/2
area=s*(s-a)*(s-b)*(s-c)**0.5
print('the area is %0.3f'%area)
```

enter first number 2
enter second number 5
enter first number 2
the area is -8.894

In [39]:

```
import cmath
a=float(input('enter first number '))
b=float(input('enter second number '))
c=float(input('enter first number '))
d=b**2-4*a*c
sol1=(-b-cmath.sqrt(d))/2*a
sol2=(-b+cmath.sqrt(d))/2*a
print('the quadratic equation is {0} and {1}'.format(sol1,sol2))
```

enter first number 1
enter second number 5
enter first number 6
the quadratic equation is (-3+0j) and (-2+0j)

In [40]:

```
x=5
y=10
temp=x
x=y
y=temp
print('the value of x after swaping {}'.format(x))
print('the value of y after swaping {}'.format(y))
```

the value of x after swaping 10
the value of y after swaping 5

In [45]:

```
x=5
y=10
x,y=y,x
print("x =",x)
print("y =",y)
```

x = 10
y = 5

In [46]:

```
x=5
y=10
x=x+y
y=x-y
x=x-y
print('the value of x after swaping {}'.format(x))
print('the value of y after swaping {}'.format(y))
```

the value of x after swaping 10
the value of y after swaping 5

In [47]:

```
x=5
y=10
x=x*y
y=x/y
x=x/y
print('the value of x after swaping {}'.format(x))
print('the value of y after swaping {}'.format(y))
```

the value of x after swaping 10.0
the value of y after swaping 5.0