

In [2]:

```
num=int(input("enter a number"))
if num%2==1:
    print("odd number")
else:
    print("even number")
```

enter a number26
even number

In [5]:

```
num1=int(input("enter 1st number"))
num2=int(input("enter 2nd number"))
num3=int(input("enter 3d number"))
if (num1>num2) and (num1>num3):
    print("num1 is greatest",num1)
elif (num2>num1) and (num2>num3):
    print("num2 is greatest",num2)
elif (num3>num2) and (num3>num1):
    print("num3 is greatest",num3)
else:
    print("all are equal")
```

enter 1st number12
enter 2nd number32
enter 3d number4
num2 is greatest 32

In [10]:

```
fact=1
num=int(input("enter a number"))
if num<0:
    print("enter valid no")
elif num==1:
    print("factorial is 1")
else:
    for i in range(1,num + 1):
        fact=fact*i
    print("factorial is ",fact)
```

enter a number3
factorial is 6

In [13]:

```
num=int(input("enter a number"))
if num>0:
    for i in range(1,11):
        print(num,"*",i,"= ",(num*i))
```

enter a number3

```
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
3 * 4 = 12
3 * 5 = 15
3 * 6 = 18
3 * 7 = 21
3 * 8 = 24
3 * 9 = 27
3 * 10 = 30
```

In [36]:

```
num=int(input("enter the terms"))
n1=0
n2=1
count=0
if num<=0:
    print("enter a valid number ")
else:
    while (count<num):
        nth=n1+n2
        n1=n2
        print(n1)
        n2=nth
        count=count+1
```

enter the terms7

```
1
1
2
3
5
8
13
```

In [1]:

```
l=[]
```

In [2]:

```
1
```

Out[2]:

```
[]
```

In [3]:

```
l=[6,7,8,9,3,4,5,6]
```

In [4]:

```
len(l)
```

Out[4]:

```
8
```

In [5]:

```
l[0]
```

Out[5]:

```
6
```

In [6]:

```
l[6]
```

Out[6]:

```
5
```

In [7]:

```
l[-1]
```

Out[7]:

```
6
```

In [8]:

```
l[-2]
```

Out[8]:

```
5
```

In [10]:

```
l[4:6] #list slicing
```

Out[10]:

```
[3, 4]
```

In [11]:

```
l[:4]
```

Out[11]:

```
[6, 7, 8, 9]
```

In [12]:

```
l[4:]
```

Out[12]:

```
[3, 4, 5, 6]
```

In [13]:

```
l1=[]
```

In [14]:

```
for i in l:  
    print(i)
```

```
6  
7  
8  
9  
3  
4  
5  
6
```

In [15]:

```
for i in l:  
    l1.append(i)  
    print(l1)
```

```
[6]  
[6, 7]  
[6, 7, 8]  
[6, 7, 8, 9]  
[6, 7, 8, 9, 3]  
[6, 7, 8, 9, 3, 4]  
[6, 7, 8, 9, 3, 4, 5]  
[6, 7, 8, 9, 3, 4, 5, 6]
```

In [18]:

```
l2=[]
```

In [21]:

```
for i in range(5):  
    l2.append(input("enter elements"))
```

```
enter elementshello  
enter elementshi  
enter elementsgoeduhub  
enter elementsai  
enter elementsr
```

In [24]:

```
l2
```

Out[24]:

```
['2', '3', '4', '5', '6', 'hello', 'hi', 'goeduhub', 'ai', 'rt']
```

In []:

In [25]:

```
s="my name is diksha"
```

In [26]:

```
l=s.split(' ')
```

In [27]:

```
l
```

Out[27]:

```
['my', 'name', 'is', 'diksha']
```

In [28]:

```
s="my,name,is,diksha"
```

In [29]:

```
l=s.split(',')
```

In [30]:

```
l
```

Out[30]:

```
['my', 'name', 'is', 'diksha']
```

In [31]:

```
s='''my name is diksha  
i am studuing  
AI is best subject'''
```

In [32]:

```
l=s.split('\n')
```

In [33]:

```
l
```

Out[33]:

```
['my name is diksha', 'i am studuing', 'AI is best subject']
```

In []: