In [1]:
```
 # 1.Write a Python program to loop through all the elements in a list
x=[1,2,3,4,5]
for y in x:
    print(y)
```

```
1
2
3
4
5
```

In [3]:
```
#2. Write a Python program where you will ask the users to insert elements in
z=[]
x=int(input("enter the length of the list "))
for y in range(x):

    i=input("enter element ".format(x+1))
    z.insert(x,i)
print(z)
```

```
enter the length of the list 5
enter element 1
enter element 2
enter element 3
enter element 4
enter element 5
['1', '2', '3', '4', '5']
```

In [4]:
```
#3. Write a Python program to remove all the odd index value from a list and o
x=[1,2,3,4,5,6,7,"a"]
x[::2]
```

Out[4]:
```
[1, 3, 5, 7]
```

In [10]:
```
#4. Write a Python program to sum and multiply all the items in a list
#Ex: Input: [1,2,3,4] Output: sum: 10 Product: 24
z=[1,2,3,4]
sum1=0
product=1
for x in z:
    sum1+=x
    product*=x
print("sum=",sum1)
print("product=",product)
```

```
sum= 10
product= 24
```

In [12]:
```
#5. Write a Python program to get the maximum and minimum numbers from a list
# Ex: Input: [8,4,11,7,90] Output: max: 90 Min: 4
list=[8,4,11,7,90]
max_num=list[0]
min_num=list[0]
for num in list:
    if num > max_num:
        max_num=num
    if num < min_num:
        min_num=num
print("max_num=",max_num)
print("min_num=",min_num)
```

```
max_num= 90
min_num= 4
```

In [3]:
```
#6. Write a Python program to print a specified list after removing the 0th, 4

x= ['Red','Green','White','Black','Pink','Yellow']
y=[]

for z in range(0,len(x)):
    if z!=0 and z!=4 and z!=5:
        y.append(x[z])
print(y)
```

```
['Green', 'White', 'Black']
```

In [6]:
```
#7. Write a Python program to convert a list of characters into a string

x=[1,2,3,4]
for y in x:
    print(y,end=" ")
    y=str(y)
```

```
1 2 3 4
```

In [11]:
```
#8.Write a Python program to compute average of given lists.

l=[1,2,3,4,5]
average=0
num=len(l)
for x in l:
    average+=x/num
print("average: ",average)
```

```
average:  3.0
```

In [14]:
```
#9. Write a Python program to count integer in a given mixed list

a=0
length=int(input("enter the no of elements to be inserted : "))
x=[]
for y in range(0,length):
    data_type=input("int,float,complex,string choose from these ")
    if data_type=="int":
        x.append(int(input("enter the data")))
        a+=1
    elif data_type=="float":
        x.append(float(input("enter the data")))
    elif data_type=="complex":
        x.append(complex(input("enter the data")))
    elif data_type=="string":
        x.append(str(input("enter the data")))
    else:
        x.append(input("enter the data"))
print(x)
print("number of integers:",a)
```

```
enter the no of elements to be inserted : 4
int,float,complex,string choose from these int
enter the data5
int,float,complex,string choose from these float
enter the data2.2
int,float,complex,string choose from these string
enter the dataa
int,float,complex,string choose from these int
enter the data6
[5, 2.2, 'a', 6]
number of integers: 2
```

In [17]:
```
#10. Write a Python program to reverse the list

l=[]
a=int(input("Enter the length of the list: "))
for x in range(0,a):
    l.append(input("Enter the data: "))
print(l[::-1])
```

```
Enter the length of the list: 4
Enter the data: a
Enter the data: b
Enter the data: c
Enter the data: d
['d', 'c', 'b', 'a']
```

In [1]:
```
#11. Write a Python program convert a given string to a tuple
#Ex: Input: “python1.2”
#Output: (“p”,” y”,”t”,”h”,” o”,” n”,”1”,”.”,”2”)

string=input("Enter a string: ")
print(tuple(string))
```

```
Enter a string: python1.2
('p', 'y', 't', 'h', 'o', 'n', '1', '.', '2')
```

In [ ]:
```

```