



Eg 7: To print sum of numbers present inside list

```
1) list=eval(input("Enter List:"))
2) sum=0;
3) for x in list:
4)     sum=sum+x;
5) print("The Sum=",sum)
6)
7) D:\Python_classes>py test.py
8) Enter List:[10,20,30,40]
9) The Sum= 100
10)
11) D:\Python_classes>py test.py
12) Enter List:[45,67]
13) The Sum= 112
```

2) while loop:

If we want to execute a group of statements iteratively until some condition false, then we should go for while loop.

Syntax:

```
while condition :
    body
```

Eg: To print numbers from 1 to 10 by using while loop

```
1) x=1
2) while x <=10:
3)     print(x)
4)     x=x+1
```

Eg: To display the sum of first n numbers

```
1) n=int(input("Enter number:"))
2) sum=0
3) i=1
4) while i<=n:
5)     sum=sum+i
6)     i=i+1
7) print("The sum of first",n,"numbers is :",sum)
```