ASSIGNMENT 3.1

Problem Statement 1:

Write a Python Program to implement your own myreduce() function which works exactly like Python's built-in function reduce().

OUTPUT: Here we have made a my_func() function calculate the sum of the list like reduce function as shown.

In [2]:
```
k=[2,4,5,2,54,23,3]
```

In [3]:
```
import functools
l=functools.reduce(lambda a,b : a+b ,k)
print(l)
```

```
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```

In [4]:
```
def my_func(list1):
    t=len(list1)
    sum=0
    for i in range (0,t):
        sum=sum+list1[i]
    print(sum)

my_func(k)
```

```
93
```

Problem Statement 2:

Write a Python program to implement your own myfilter() function which works exactly like Python's built-in function filter()

OUTPUT: Here we have made a my_func2() function to filter out even numbers and print odd numbers of the list like filter function as shown.

In [6]:
```
result = filter(lambda x: x % 2, k)
print(list(result))
```

```
[5, 23, 3]
```

In [8]:
```
def myfunc2(list2):
    t=len(list2)
    res=[]
    for i in range(0,t):
        if(list2[i]%2 !=0):
            res.append(list2[i])
    print(list(res))

myfunc2(k)
```

```
[5, 23, 3]
```