

**Aim:**

Write a program to find the **sum** of all numbers in **list** using for loop that loops over a sequence and print **good bye..!** after completion of iteration. Also explain What is sequence?

At the time of execution, the program should print the message on the console as:

Enter size of list:

For example, if the user gives the input as:

Enter size of list: 3

Now, the program should print the following messages one by one on the console as:

Enter value:  
Enter value:  
Enter value:

For example, if the user gives the input as:

Enter value: 6  
Enter value: 3  
Enter value: 7

then the program should print the result as:

The sum of the given sequence [6, 3, 7] is 16  
good bye..!

**Source Code:**

Lab3c.py

```
k = [ ] #List declaration
n = int(input("Enter size of list: "))
for i in range(0,n):
    a=int(input("Enter value: "))
    k.append(a)
sum=0
for i in k:
    sum=sum+i
print("The sum of the given sequence",k ,"is",sum)
print("good bye..!")
```

**Execution Results** - All test cases have succeeded!

Test Case - 1
User Output
Enter size of list: 3
Enter value: 6
Enter value: 3

Enter value: 7
The sum of the given sequence [6, 3, 7] is 16
good bye..!

Test Case - 2
User Output
Enter size of list: 5
Enter value: 22
Enter value: 44
Enter value: 11
Enter value: 55
Enter value: 66
The sum of the given sequence [22, 44, 11, 55, 66] is 198
good bye..!