Python Basic Programming Assignment 10

1. Write a Python program to find sum of elements in list?

```
In [1]:  a=[2,3,5,9,1,6]
         sum=0
         for i in a:
             sum+=i
         print(sum)
```

26

2. Write a Python program to Multiply all numbers in the list?

```
In [2]:  a=[2,3,5,9,1,6]
         mul=1
         for i in a:
             mul*=i
         print(mul)
```

1620

3. Write a Python program to find smallest number in a list?

```
In [3]:  a=[2,3,5,9,1,6]
         n=a[0]
         for i in a:
             if(i<n):
                 n=i
         print(n)
```

1

4. Write a Python program to find largest number in a list?

```
In [4]:  a=[2,3,5,9,1,6]
         n=a[0]
         for i in a:
             if(i>n):
                 n=i
         print(n)
```

9

5. Write a Python program to find second largest number in a list?

```
In [18]:  a=[15,20,30,5,9,100,600]
          max=a[0]
          secmax=a[1]
          for i in a:
              if(i>max):
                  secmax=max
                  max=i
              elif(i>secmax and i!=max):
```

```
            secmax=i
print(secmax)
```

```
100
```

6. Write a Python program to find N largest elements from a list?

In [28]:
```python
a=[15,20,30,5,9,100,600]
b=list(set(a))
b.sort()
n=int(input("Enter the value of n: "))
print("{} largest value is= {}".format(n, b[-n]))
```

```
Enter the value of n: 4
4 largest value is= 20
```

7. Write a Python program to print even numbers in a list?

In [29]:
```python
a=[15,20,30,5,9,100,600]
for i in a:
    if(i%2==0):
        print(i)
```

```
20
30
100
600
```

8. Write a Python program to print odd numbers in a List?

In [30]:
```python
a=[15,20,30,5,9,100,600]
for i in a:
    if(i%2!=0):
        print(i)
```

```
15
5
9
```

9. Write a Python program to Remove empty List from List?

In [41]:
```python
a=[15,[6,4],[],[9,12],20,30,5,9,100,600]
for i in a:
    if(i==[]):
        a.remove(i)
print(a)
```

```
[15, [6, 4], [9, 12], 20, 30, 5, 9, 100, 600]
```

10. Write a Python program to Cloning or Copying a list?

In [42]:
```python
a=[15,20,30,5,9,100,600]
b=[]
for i in a:
    b.append(i)
print(b)
```

```
[15, 20, 30, 5, 9, 100, 600]
```

11. Write a Python program to Count occurrences of an element in a list?

```
In [43]: a=[15,20,30,5,9,100,600]
         ele=9
         n=0
         for i in a:
             if(i==ele):
                 n+=1
         print(n)
```

```
1
```