Python Basic Programming Assignment 10

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

In [2]:

```
1  l = [2, 4, 1, 5, 6, 7]
2
3  total = 0
4  for i in 1:
5    total += i
6
7  print(total)
```

25

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

```
In [3]:
```

```
1  l = [2, 4, 1, 5, 6, 7]
2
3  mul = 1
4  for i in l:
5    mul *= i
6
7  print(mul)
```

1680

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

```
In [7]:
```

```
1  l = [2, 0, 1, 1235, 6, -7123]
2  minimum = l[0]
4  for i in l:
5    if i < minimum:
6        minimum = i
7    print(minimum)</pre>
```

-7123

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

In [8]:

1235

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

```
In [16]:
```

Second largest number: 6

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

```
In [18]:
```

```
1 def findLarge(lst, n):
2
3    lst.sort(reverse = True)
4    return lst[n-1]
```

```
In [19]:
```

```
1 # 2nd Largest Element
2
3 l = [2, 0, 1, 1235, 6, -7123]
4 findLarge(1, 2)
```

Out[19]:

6

In [20]:

```
1 # 4th Largest Element
2
3 l = [2, 0, 1, 1235, 6, -7123]
4 findLarge(l, 4)
```

```
Out[20]:
```

1

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

```
In [23]:
```

```
1 l = [2, 0, 1, 1235, 6, -7123, 21, 54, 12, -23, -42]
2
3 [ i for i in l if i%2 == 0]
```

Out[23]:

```
[2, 0, 6, 54, 12, -42]
```

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

In [26]:

```
1 | 1 = [2, 0, 1, 1235, 6, -7123, 21, 54, 12, -23, -42]
2 | 3 | [ i for i in 1 if i%2 == 1]
```

Out[26]:

```
[1, 1235, -7123, 21, -23]
```

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

In [71]:

```
1 = [[], 12, 31, [1,2, -23], [1], [], [123.23], [], 2, 321]
   result = []
 3
   for i in 1:
 4
 5
        if type(i) == list:
 6
            if len(i) != 0:
 7
                result.append(i)
 8
        else:
 9
            result.append(i)
10
11
   result
12
13
```

Out[71]:

```
[12, 31, [1, 2, -23], [1], [123.23], 2, 321]
```

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

In [74]:

```
1 list1 = [2,1, 31, 3, 412, 3, 4667, [2,3,1]]
2 list2 = []
3
4 for i in list1:
    list2.append(i)
6
7 print(list2)
```

```
[2, 1, 31, 3, 412, 3, 4667, [2, 3, 1]]
```

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

```
In [76]:
```

In [77]:

```
1 occurrences(1, 1)
```

Out[77]:

5

In []:

1