

## List task

### 1. Write a program to sum all the items and multiply all the items

In [2]:

```
# sum of all the items in a list
l=[1,2,3,4,5,6,6]
total=0
for i in range(0,len(l)):
    total=total+l[i]
print(total)
```

27

In [7]:

```
# multiply all the items in a list
l=[1,2,3,4,5,6]
def multiplylist(l):
    result=1
    for x in l:
        result=result*x
    return result
print(multiplylist(l))
```

720

### 2. Write a python function that takes two lists and returns True if they have at least one common member.

In [10]:

```
def common_data(list1,list2):
    result=False
    for x in list1:
        for y in list2:
            if x==y:
                result=True
                return result
print(common_data([1,2,3,4,5],[5,6,7,8,9,10]))
print(common_data([1,2,3,4,5],[6,7,8,9,10]))
```

True  
None

### 3. Write a program to compute the difference between two lists.

In [14]:

```
color1=["red","orange","green","blue","white"]
color2=["black","yellow","green","blue"]
temp=[]
for i in color1:
    if i not in color2:
        temp.append(i)
print(temp)
```

['red', 'orange', 'white']

In [15]:

```
color1=["red","orange","green","blue","white"]
color2=["black","yellow","green","blue"]
temp=[]
for i in color2:
    if i not in color1:
        temp.append(i)
print(temp)
```

['black', 'yellow']

In [ ]:

In [ ]: