In [1]:
```
student_portal=["Std_name","phn_num","email"]
student_portal1=["admin-id","admin_name"]
student_portal2={"Multivalued_attribute":"Full_name"}
student_portal.insert(3,"DOB")
print(student_portal)
student_portal.append("std_id")
print(student_portal)

student_portal.extend(student_portal1)
print(student_portal)

student_portal.extend(student_portal2.items())
print(student_portal)
```

```
['Std_name', 'phn_num', 'email', 'DOB']
['Std_name', 'phn_num', 'email', 'DOB', 'std_id']
['Std_name', 'phn_num', 'email', 'DOB', 'std_id', 'admin-id', 'admin_name']
['Std_name', 'phn_num', 'email', 'DOB', 'std_id', 'admin-id', 'admin_name', ('Multivalued_attribute', 'Full_name')]
```

In [2]:
```
li1=[1,2,3,4,5,6]
l=len(li1)
if len(li1)<2:
    print("Cannot swap")
else:
    temp=li1[0]
    li1[0]=li1[l-1]
    li1[l-1]=temp
print(li1)
```

```
[6, 2, 3, 4, 5, 1]
```

In [3]:
```
li2=[1,2,3,4,5,6]
sum=0
for i in range(len(li2)):
    sum=sum+li2[i]
print(sum)
```

```
21
```

In [4]:
```
li2=[1,2,3,0,5,6]
smallest=li2[0]
for i in li2:
    if i< smallest:
        smallest=i
print(smallest)
```

```
0
```

In [5]:
```
dict1={"Name":"Koushik Das","Age":2347232,"year":2023,"std_id":1}
print(sorted(dict1))
print(sorted(dict1.items(),reverse=True))
```

```
['Age', 'Name', 'std_id', 'year']
[('year', 2023), ('std_id', 1), ('Name', 'Koushik Das'), ('Age', 2347232)]
```

In [6]:
```
dict2={"x":1,"y":2,"z":3}
a=list(dict2.values())
sum=0
for i in a:
    sum=sum+i
print(sum)
```

```
6
```

In [7]:
```
values = [10, 5, 8, 3, 7, 2]

# Sort the list in descending order using a lambda function
sorted_values = sorted(values, key=lambda x: -x)
```

```
# Print the sorted values
print(sorted_values)
```

```
[10, 8, 7, 5, 3, 2]
```

In [ ]: