Q1. Create a LIST with your domain attributes, insert the elements using the append (), insert(), extend() and add any iterables (tuples, sets, dictionaries etc.) to the list (Use all the methods).

In [ ]:
```
domain_attributes = ["Event_Name", "Location", "Time"]

domain_attributes.append("Invitation_Status")
print("append() : ", domain_attributes)

domain_attributes.insert(0, "Sl_no")
print("insert() : ", domain_attributes)

new = ["Manager_name",]
domain_attributes.extend(new)
print("extend() : ", domain_attributes)

loc = ["Sans berg", "St. Thomas's", "Eden Park"]
domain_attributes.insert(2, loc)
print(domain_attributes)
```

```
append() :  ['Event_Name', 'Location', 'Time', 'Invitation_Status']
insert() :  ['Sl_no', 'Event_Name', 'Location', 'Time', 'Invitation_Status']
extend() :  ['Sl_no', 'Event_Name', 'Location', 'Time', 'Invitation_Status', 'Man
ager_name']
['Sl_no', 'Event_Name', ['Sans berg', "St. Thomas's", 'Eden Park'], 'Location',
'Time', 'Invitation_Status', 'Manager_name']
```

Write a program to swap the first and last elements in a list.

In [ ]:
```
list = [1, 2, 3, 4, 5, 6, 7, 8, 9]

list[1], list[-1] = list[-1], list[1]

print(list)
```

```
[1, 9, 3, 4, 5, 6, 7, 8, 2]
```

Write a program to find the sum of the digits in a list.

In [ ]:
```
list = [1, 2, 3, 4, 5, 6, 7, 8, 9]
sum = 0
for i in list:
    sum += i

print("Sum :", sum)
```

```
Sum : 45
```

Write a program to find the smallest element in a list

In [ ]:
```
list = [3, 4, 2, 4, 0, 4, 7, 8, 9]

min = list[0]
```

```
for i in list:
    if i < min:
        min = i

print("Minimum : ", min)
```

```
Minimum :  0
```

Sort the dictionaries in ascending order based on the Key of the dictionary.

In [ ]:
```
dict = {
    "Public" : "Student",
    "Event name" : "Ureka",
    "Location" : "Eden garden"
}
sorted(dict.keys())
print(dict)
```

```
{'Public': 'Student', 'Event name': 'Ureka', 'Location': 'Eden garden'}
```

Create the dictionary with Numeric as Value in Key – Value pair and find the sum of all the values in the Dictionary.

In [ ]:
```
dict = {"num1": 3, "num2": 89, "num3": 5, "num4": 0}

sum = 0
for keys in dict:
    sum += dict[keys]

print(sum)
```

```
97
```

Write a Python code to demonstrate the sorting in descending order of values with lambda function.

In [ ]:
```
dict = {"num1": 4, "num2": 100, "num3": 2, "num4": 1}

sort = sorted(dict.items(), key = lambda x: x[1], reverse=True)

print(sort)
```

```
[('num2', 100), ('num1', 4), ('num3', 2), ('num4', 1)]
```