In [ ]:
```
# Gul e hasnain 19B-010-SE Section: A Lab(2)
```

In [7]:
```
# rogram 1
original_list = [10, 22, 44, 23, 4]
new_list2 = list(original_list1)
print(original_list1)
print(new_list2)
```

```
[10, 22, 44, 23, 4]
[10, 22, 44, 23, 4]
```

In [9]:
```
#program 2
# create an empty tuple
x = ()
print(x)
# creat an empty typle with tuple() function built-in python
tuple1 = tuple()
print(tuple1)
```

```
()
()
```

In [10]:
```
# program 3
# create a tuple with different data types
tuple2 = ("tuple", False, 3.2, 1)
print(tuple2)
```

```
('tuple', False, 3.2, 1)
```

In [11]:
```
# program 4
# get an item of the tuple
tuplex = ("U", "I", "T", 2, 0, 1, 8, "b", "a", "t", "c", "h")
print(tuplex)
# get item (4th element) of the tupke by index
item = tuplex[3]
print(item)
# get item (4th element from last) by index negative
item1 = tuplex[-4]
print(item1)
```

```
('U', 'I', 'T', 2, 0, 1, 8, 'b', 'a', 't', 'c', 'h')
2
a
```

In [17]:
```
# program 5
lst = [2, 3, 4]
lst.extend([5, 6])
print(lst)
# list is extended 5 And 6 are added to lst
lst2 = lst.copy()
print(lst2)
# lst is copied and store in lst2 but it is also present in lst
lst.clear()
print(lst)
# data of lst is cleared
print(lst2)
#data is still present in lst2
```

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