```
🥏 Q1.py > ...
      list_ex = list([x for x in range(11) if x%2==0])
     tuple_ex = (2,3,'Hello',5,['Sourabh',8351,234],8)
  6 set_ex = set([x for x in range(11) if x%2!=0])
      print('Traversing The list: ', end=" ")
      for i in list_ex:
	print(i,end=" ")
print('\n')
      print('Traversing The tuple: ', end=" ")
      for i in tuple_ex:
      print('\n')
      print('Traversing The set: ', end=" ")
      for i in set_ex:
          print(i, end=" ")
      print('\n')
TERMINAL
PS E:\Study Material\CDAC\Python Learning\31-03-2022> python
Traversing The list: 0 2 4 6 8 10
Traversing The tuple: 2 3 Hello 5 ['Sourabh', 8351, 234] 8
Traversing The set: 1 3 5 7 9
```

Q2.Script:

```
Query >=

| Silst = []
| For in range(SD):
| For in range(SD):
| Silst = []
| For in range(SD):
| Silst.appen(See)
| Sum_si = suncillust.append(See)
| Sum_si = suncillist.append(See)
| Sum_si = suncillist.
| Range(SD):
| Silst(silst):
| Range(SD):
| Silst(silst):
| Print(Silst):
| Print(Silst):
| Print(Silst):
| For in range(SD):
| Silst = []
| For in range(SD):
| Silst = []
| So = int(input(Enter the Number of elements in the Second set: '))
| Silst = []
| So = sint(input(Enter the Element: '))
| Silst = []
| So = sint(input(Enter the Element: '))
| Silst = []
| Print(Silst):
| So = int(input(Enter the Element: '))
| So = sint(input(Enter the Element: '))
| So = sint(input(Enter the Element: '))
| So = sint(input(Enter the Element: '))
| Print(Enter the Element: '))
| So = sint(input(Enter the Element: '))
| Print(Finer the Element: ')
| Print(Finer the Elemen
```

```
print('The difference is ',diff,sep="\n")

# intersection

inter = S1.intersection(S2)

print('The intersection is ',inter,sep="\n")

print()

# Symmetric Difference

SD = S1.symmetric_difference(S2)

# issuperset

if S1.issuperset(S2):

print('S1 is Superset of S2')

elif S2.issuperset(S1):

print("No, Second Set is the SuperSet of First Set")

else:

print('No SuperSet')

# issubset

if S1.issubset(S2):

print('S1 is Subset of S2')

elif S2.issubset(S1):

print('No SuperSet')

# issubset

if S1.issubset(S1):

print('No Subset of S2')

elif S2.issubset(S1):

print('No, Second Set is the Subset of First Set")

else:

print('No, Second Set is the Subset of First Set")

else:

print('No SubSet')
```

Output:

```
PS E:\Study Material\CDAC\Python Learning\31-03-2022> python -u "e:\Study Material\CDAC\Python Learning\31-03-2022\Q2.py"
Enter the Number of elements in the First set: 2
Enter the Element: 1
Enter the Element: 3
{1, 3}
Enter the Number of elements in the Second set: 4
Enter the Number of elements in the Second set: 4
Enter the Element: 7
Enter the Element: 9
Enter the Element: 9
Enter the Element: 6
{8, 9, 6, 7}
The len of the First set is 2
The len of the Second set is 4
The Minimum element in First set is 9
The minimum element in First set is 9
The minimum element in Second set is 6
The minimum element in Second set is 9
The sum of all elements in the First set is 4
The sum of all elements in the Second set is 4
The sum of both the set is 8
The Union is
{1, 3, 6, 7, 8, 9}
The difference is
{1, 3}
The intersection is set()

No SuperSet
No Subset
```

Q3.

```
P Q3py > ...
1 t1_list = []
2 for i in range(5):
3         T = int(input("Enter number {} :".format(i+1)))
4         t1_list.append(T)
5         minimum_t1 = min(t1_list)
7         maximum_t1 = max(t1_list)
8         sum_t1 = sum(t1_list)
9         t1_list.sort()
10         T = tuple(t1_list)
11         print('The Minimum element is:',minimum_t1)
12         print('The Maximum element is:',maximum_t1)
13         print('The Sum of all the elements is:',sum_t1)
14         print('Printing Tuple:',T)
15         ETEMINAL

PS E:\Study Material\CDAC\Python Learning\31-03-2022> python -u "e:\Study Material\CDAC\Python Learning\31-03-2022\Q3.py"
Enter number 1 :1
Enter number 2 :5
Enter number 4 :9
Enter number 5 :6
The Minimum element is: 1
The Maximum element is: 9
The Sum of all the elements is: 28
Printing Tuple: (1, 5, 6, 7, 9)
```

Q4.

```
P Q4.py > ...
1    T = tuple([1,2,5,6])
2    T_concatenated = T+T
3    print(T_concatenated)
4    T_repitation = T+3
5    print(T_repitation)

TERMINAL
PS E:\Study Material\CDAC\Python Learning\31-03-2022> python -u "e:\Study Material\CDAC\Python Learning\31-03-2022\Q4.py"
(1, 2, 5, 6, 1, 2, 5, 6)
(1, 2, 5, 6, 1, 2, 5, 6)
```