Practical 3.2

Perform add, union, intersection, difference, symmetric_difference, intersection_update, symmetric_difference_update, difference_update, discard, issubset, issuperset, isdisjoint, remove, pop and clear operations on Set.

Perform add,union,intersection,difference,symmetric_difference on Set

In [79]:
```
s1 = {8,9,23,25,13}
```

In [80]:
```
s2 = {8,23,25,28,57}
```

In [81]:
```
s1,s2
```

Out[81]: ({8, 9, 13, 23, 25}, {8, 23, 25, 28, 57})

In [82]:
```
s1.add(18)
```

In [83]:
```
s1
```

Out[83]: {8, 9, 13, 18, 23, 25}

In [84]:
```
print("Union : ",s1.union(s2))
```

```
Union :  {8, 9, 13, 18, 23, 25, 28, 57}
```

In [85]:
```
print("Intersection : ",s1.intersection(s2))
```

```
Intersection :  {8, 25, 23}
```

In [86]:
```
print("Difference : ",s1.difference(s2))
```

```
Difference :  {9, 18, 13}
```

In [87]:
```
print("Symmetric Difference : ",s1.symmetric_difference(s2))
```

```
Symmetric Difference :  {18, 28, 13, 9, 57}
```

Perform intersection_update, symmetric_difference_update, difference_update on set

In [88]:
```
t,v,w = s1,s1,s1
```

In [89]:
```
t.intersection_update(s2)
```

In [90]:
```
t
```

Out[90]: {8, 23, 25}

In [91]:
```
v.symmetric_difference_update(s2)
```

In [92]:
```
v
```

Out[92]: {28, 57}

In [93]:
```
s2.difference_update(v)
```

In [94]:
```
w
```

Out[94]: {28, 57}

Discard, issubset, issuperset, isdisjoint, remove, pop and clear operations on set

In [95]:
```
s2.discard(23)
```

In [96]:
```
s2
```

Out[96]: {8, 25}

In [97]:
```
print("Is subset : ",s2.issubset({8,25,28,57,60,62}))
```

```
Is subset :  True
```

In [98]:
```
print("Is superset : ",s2.issuperset({8,25,28}))
```

```
Is superset :  False
```

In [99]:
```
s2.remove(55)
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
Cell In[99], line 1
----> 1 s2.remove(55)

KeyError: 55
```

In [100…
```
s2.pop()
```

Out[100… 8

In [101…
```
s2.clear()
```

In [102…
```
s2
```

Out[102… set()