### **ASSIGNMENT-2**

How to access a particular element in set Difference b/w remove func and discard func What is intersection\_update() What is symmetric\_difference\_update() What is symmetric\_difference() What is dict() Use append() func by converting tuples into a list

#### Q1: How we can check or access one particular element from a set?

#### Q2:Difference between remove function and discard function in a set.

```
remove()-It removes the given element from the set. If the element is not present in the set then it raises a KeyError. Discard()-This function accepts an element as an argument and if that element exists in the set, then it deletes that. Whereas, if the given element does not exist in the set, then discard() function does nothing. So unlike remove() function it does not throw any error this is the main difference between the two.
```

# Q3:What is intersection\_update()?

Python intersection\_update() method is used to update a set with common elements only of all the sets passed in parameter of intersection\_update() method.

```
In [24]: set1 = {"java", "python", "c/cpp", "html"}
    set2 = {"php", "html", "java", "R"}
    set3 = {"java", "python", "ml", "dl"}
    set4 = {"python", "java", "swift", "R"}

In [25]: # perform intersection_update operation on set1
    set1.intersection_update(set2, set3, set4)
    # display the result set
```

After intersection\_update, set1: {'java'}

print("After intersection\_update, set1:", set1)

None

## Q4:What is symmetric\_difference\_update()?

The symmetric difference of two sets is the set of elements which are in either of the sets but not in both of them. symmetric\_difference() method returns a new set which contains symmetric difference of two sets. The symmetric\_difference\_update() method updates the set calling symmetric\_difference\_update()with the symmetric difference of sets.

```
In [26]: A = {1,2,3,4,5,6,7}
B = {2,3,4,8,9}

# result is always none.
result = A.symmetric_difference_update(B)

print('A = ', A)
print('B = ', B)
print('result = ', result)

A = {1, 5, 6, 7, 8, 9}
B = {2, 3, 4, 8, 9}
result = None
```

# Q5:What is symmetric\_difference()?

Python Set symmetric\_difference() Method is used to get the elements present in either of the two sets, but not common to both the sets. If there are a set\_A and set\_B, then the symmetric difference between them will be equal to the union of set\_A and set\_B without the intersection between the two.

```
In [27]: set_A = {1, 2, 3, 4, 5}
    set_B = {6, 7, 3, 9, 4}
    print(set_A.symmetric_difference(set_B))
    {1, 2, 5, 6, 7, 9}
```

# Q6: What is dict()?

Dictionaries are used to store data values in key:value pairs. A dictionary is a collection which is ordered\*, changeable and do not allow duplicates.

```
In [29]: thisdict = {
    "Name": "Jaislin",
    "ID": "1234",
    "Age": 21
    }
    print(thisdict)

{'Name': 'Jaislin', 'ID': '1234', 'Age': 21}

In [30]: print(len(thisdict))
```

# Q7:Use append() func by converting tuples into a list