PYTHON SETS

Q1. What is a set in Python?

Ans. In Python, we create sets by placing all the elements inside curly braces {} , separated by comma. A set can have any number of items and they may be of different types (integer, float, tuple, string etc.). But a set cannot have mutable elements like lists, sets or dictionaries as its elements.

Q2. How do you create a set in Python?

Ans. We create sets by placing all the elements inside curly braces {} , separated by comma.

```
In [2]: a = {1,2,3,4,5,6,6,7,10, 'India'}
In [3]: type(a)
Out[3]: set
```

Q3. How do you add elements to a set in Python?

Ans. You can add an item to a set in Python by using the add() method with the new item to be added passed in as a parameter.

```
In [4]: s = {23,78, 90,34,87,19,30}
In [6]: s.add('India')
s
Out[6]: {19, 23, 30, 34, 78, 87, 90, 'India'}
```

Q4. How do you remove elements from a set in Python?

Ans. We can remove elements from set by sing remove() function, discard() function or pop() function

```
In [7]: 1 = {91, 89, 45, 32, 90, 56, 25}
In [8]: 1.remove(45) #removes the given element
In [9]: 1
Out[9]: {25, 32, 56, 89, 90, 91}
In [10]: 1.discard(25) #removes the given element
```