AARYA ARBAN

S11-07

Assignment No.**4** - Sets

Code:

```
team = {"rohit", "rohan", "virat", "rahul", "shami"} print(team)
print(type(team)) print(len(team)) print(team)

#sets are unordered, cannnot change its item, duplicate values are not
considered
team = {"rohit", "rohan", "virat", "rahul", "shami", "rohit"} print(team)

#The values 1 and True are considered the same values in sets(0 and False) team
= {"rohit", "rohan", "virat", "rahul", "shami", "rohit", True, 1} print(team)

#A set with strings, integers and boolean set1 = {1, True, "abc", 40, "female"}
print(set1)

#Using the set() constructor to make a set
team = set(("carrie", "ingrid", "stepnova", "iris")) print(team)

#Access of items
team = set(("carrie", "ingrid", "stepnova", "iris")) for x in team:
print(x)

print("Second Part")
team = set(("carrie", "ingrid", "stepnova", "iris")) print("carrie" in team)

#Add items and sets
team = set(("carrie", "ingrid", "stepnova", "iris")) team.add("jaguar")
print(team)
```

```
Update
team1 = set(("carrie", "ingrid", "stepnova", "iris")) team.update(team1)
print(team)

#Remove item
team = set(("carrie", "ingrid", "stepnova", "iris", "jaguar"))
team.remove("jaguar")
print(team)

#Use discard() method
team1= set(("carrie", "ingrid", "stepnova", "iris", "jaguar")) print(team1)
team1.discard("carrie")
print(team1)
```

Output:

```
{'rahul', 'shami', 'virat', 'rohit', 'rohan'}
<class 'set'> 5
{'rahul', 'shami', 'virat', 'rohit', 'rohan'}
{'rahul', 'shami', 'virat', 'rohit', 'rohan'}
{'rahul', True, 'shami', 'virat', 'rohit', 'rohan'}
{40, 1, 'female', 'abc'}
{'carrie', 'ingrid', 'stepnova', 'iris'} carrie
ingrid stepnova iris
Second Part True
{'carrie', 'stepnova', 'jaguar', 'iris', 'ingrid'}
{'carrie', 'stepnova', 'jaguar', 'iris', 'ingrid'}
{'carrie', 'stepnova', 'iris', 'ingrid'}
{'carrie', 'stepnova', 'jaguar', 'iris', 'ingrid'}
{'stepnova', 'jaguar', 'iris', 'ingrid'}
```