

Lab-02-07_Sets (ASSIGN02)

October 17, 2021

1 Remember about Sets

- A Set is a data collection that is unordered, mutable, and unindexed
- No duplicates
- Represented with curly bracket {}
- Examples: `my_set1 = {3.14, 33, 5, 3}` `my_set2 = {3.14, "Mon", 3, "Sun"}` `my_set3 = {"Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"}`

2 Exercise 1

- Create a Set with five name of people
- using the `input()` function add a user-generated name to the set

```
[1]: names = { "tom" , "ali" ,"frank","john","danial"}
      x = input('Enter a name : ')
      names.add(x)
      print(names)
```

Enter a name : jack

{'john', 'frank', 'jack', 'danial', 'ali', 'tom'}

```
[ ]:
```

3 Exercise 2

- using the `input()` function remove a user-generated name from the set

```
[2]: x = input('Enter a name to remove :')
      names.remove(x)
      print(names)
```

Enter a name to remove : tom

{'john', 'frank', 'jack', 'danial', 'ali'}

4 Exercise 3

In sets we don't work with indices. • what happens if the name is not in the set? • using the `input()` function check if a name is the set

```
[3]: print(input('select a name :') in names)
```

select a name : jack

True

```
[4]: print(input('select a name :') in names)
```

select a name : sara

False

```
[ ]:
```