

The screenshot shows the PyCharm IDE interface. The top toolbar contains icons for file operations (New, Open, Save, etc.), a search icon, and a run icon. The editor window displays a Python script with the following code:

```
1 # Data structures in python |
2 # List Exercise
3 # Q1. Create a list of 5 random numbers and print the list.
4 List=[23,21,1,3,56]
5 print('List of random numbers = ',List)
6
7 # Q2. Insert 3 new values to the list and print the updated list.
8 List.extend([7,5,16])
9 print('Updated list = ',List)
10
11 # Q3. Try to use a for loop to print each element in the list.
12 for i in List:
```

Below the editor is the 'Run' console, which shows the output of the script:

```
C:\Users\user\PycharmProjects\entri_d41_python_project\.venv\Scripts\python.exe C:\Users\user\PycharmProjects\entri_d41_pytho
List of random numbers = [23, 21, 1, 3, 56]
Updated list = [23, 21, 1, 3, 56, 7, 5, 16]
23
21
1
3
56
```

The screenshot shows a code editor with a dark theme. The top bar displays the project name 'entri_d41_python_project' and 'Version control'. The file explorer on the left shows several files: 'Session1.py', 'Tuple.py', 'Statement.py', 'Assignment2.py' (selected), 'Assignment1,Python.py', and 'PoundstoDollars.py'. The main editor area contains the following Python code:

```
10
11 # Q3. Try to use a for loop to print each element in the list.
12 for i in List:
13     print(i)
14
15 # Topic: Dictionary Exercise
16 # Q1. Create a dictionary with keys 'name', 'age', and 'address'
17 # and values 'John', 25, and 'New York' respectively.
18 Person={'Name':'John','Age':25,'Address':'New York'}
19 print(Person)
20 print(type(Person))
21
```

Below the editor is a 'Run' window titled 'Assignment2'. It shows the output of the code execution:

```
23
21
1
3
56
7
5
16
```

Session1.py Tuple.py Statement.py Assignment2.py x Assignment1,Python.py PoundstoDollars.py

15

Topic: Dictionary Exercise

16

Q1. Create a dictionary with keys 'name', 'age', and 'address'

17

and values 'John', 25, and 'New York' respectively.

18

Person={'Name':'John','Age':25,'Address':'New York'}

19

print(Person)

20

print(type(Person))

21

22

Q2. Add a new key-value pair to the dictionary created in Q1

23

with key 'phone' and value '1234567890'.

24

Person['Phone']='1234567890'

25

print(Person)

26

Run Assignment2 x

5

16

{'Name': 'John', 'Age': 25, 'Address': 'New York'}

<class 'dict'>

{'Name': 'John', 'Age': 25, 'Address': 'New York', 'Phone': '1234567890'}

{1, 2, 3, 4, 5}

{1, 2, 3, 4, 5, 6}

{1, 2, 4, 5, 6}

entr_d41_python_projectVersion control

Current File

Session1.pyTuple.pyStatement.pyAssignment2.py xAssignment1,Python.pyPoundstoDollars.py

27# Topic: Set Exercise

28# Q1.Create a set with values 1, 2, 3, 4, and 5.

29Set={1,2,3,4,5}

30print(Set)

31

32# Q2. Add the value 6 to the set created in Q1.

33Set.add(6)

34print(Set)

35

36# Q3. Remove the value 3 from the set created in Q1.

37Set.remove(3)

38print(Set)

RunAssignment2 x

{ 'name' : 'John', 'Age' : 20, 'Address' : 'New York', 'Phone' : '1234567890' }

{1, 2, 3, 4, 5}

{1, 2, 3, 4, 5, 6}

{1, 2, 4, 5, 6}

(1, 2, 3, 4)

4

Process finished with exit code 0

entri_d41_python_project

Version control

Current File

Session1.py

Tuple.py

Statement.py

Assignment2.py

Assignment1,Python.py

PoundstoDollars.py

Structure

```
# Q3. Remove the value 3 from the set created in Q1.
37 Set.remove(3)
38 print(Set)
39
40 # Topic:Tuple Exercise
41 # Q1. Create a tuple with values 1, 2, 3, and 4
42 Tuple_t1=(1,2,3,4)
43 print(Tuple_t1)
44
45 # Q2. Print the length of the tuple created in Q1.
46 print(len(Tuple_t1))
```

Run

Assignment2

```
{ 'name' : 'John' , Age : 20 , Address : 'New York' , Phone : '1234567890' }
{1, 2, 3, 4, 5}
{1, 2, 3, 4, 5, 6}
{1, 2, 4, 5, 6}
(1, 2, 3, 4)
4
Process finished with exit code 0
```