

Tasks and results

1 List Exercise Q1. Create a list of 5 random numbers and print the list.

```
C:\Users\hp\PycharmProjects\exercise_1\.venv\Scripts\python.exe C:\Users\hp\PycharmProjects\exercise_1\Assignment_2.py
[1, 5, 4, 6, 10]

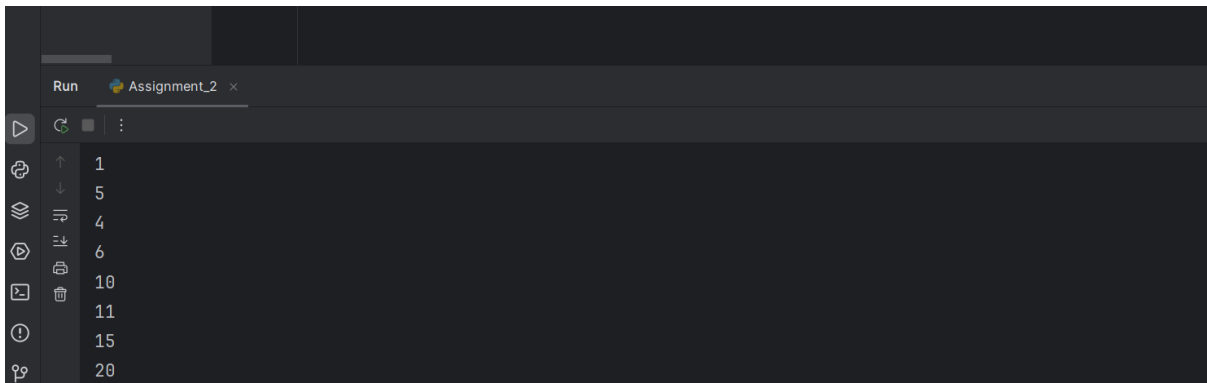
Process finished with exit code 0
```

2 Q2. Insert 3 new values to the list and print the updated list

```
C:\Users\hp\PycharmProjects\exercise_1\.venv\Scripts\python.exe C:\Users\hp\PycharmProjects\exercise_1\Assignment_2.py
[1, 5, 4, 6, 10]
[1, 5, 4, 6, 10, 11, 15, 20]

Process finished with exit code 0
```

3 Q3. Try to use a for loop to print each element in the list

A screenshot of the PyCharm IDE's Run window. The top bar shows 'Run' and 'Assignment_2'. Below it, a list of numbers is displayed: 1, 5, 4, 6, 10, 11, 15, 20. The list is presented with interactive icons (up/down arrows, copy, paste, etc.) on the left side of each number. The background is dark, and the text is light gray.

4 Dictionary Exercise Q1. Create a dictionary with keys 'name', 'age', and 'address' and values 'John', 25, and 'New York' respectively

5 Add a new key-value pair to the dictionary created in Q1 with key 'phone' and value '1234567890'.

A screenshot of the PyCharm IDE's Run window. The top bar shows 'Run' and 'Assignment_2'. Below it, the output of a Python script is shown. It starts with line numbers 10, 11, 15, and 20. The output shows two dictionary literals: {'name': 'John', 'age': '25', 'address': 'New York'} and {'name': 'John', 'age': '25', 'address': 'New York', 'phone': '1234567890'}. The background is dark, and the text is light gray.

6 Set Exercise Q1. Create a set with values 1, 2, 3, 4, and 5.

A screenshot of the PyCharm IDE's Run window. The top bar shows 'Run' and 'Assignment_2'. Below it, the output of a Python script is shown. It starts with line numbers 10, 11, 15, and 20. The output shows a set literal: {1, 2, 3, 4, 5}. The background is dark, and the text is light gray.

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7 Q2. Add the value 6 to the set created in Q1.

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

Process finished with exit code 0
```

8 Q3. Remove the value 3 from the set created in Q1.

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

9 Tuple Exercise Q1. Create a tuple with values 1, 2, 3, and 4

```
(1, 2, 3, 4)
<class 'tuple'>

Process finished with exit code 0
```

10 Q2. Print the length of the tuple created in Q1.

```
33 print(len(tuple1))
34

Run Assignment_2 x
{1, 2, 3, 4, 5}
{1, 2, 3, 4, 5, 6}
{1, 2, 4, 5, 6}
(1, 2, 3, 4)
<class 'tuple'>
4
```