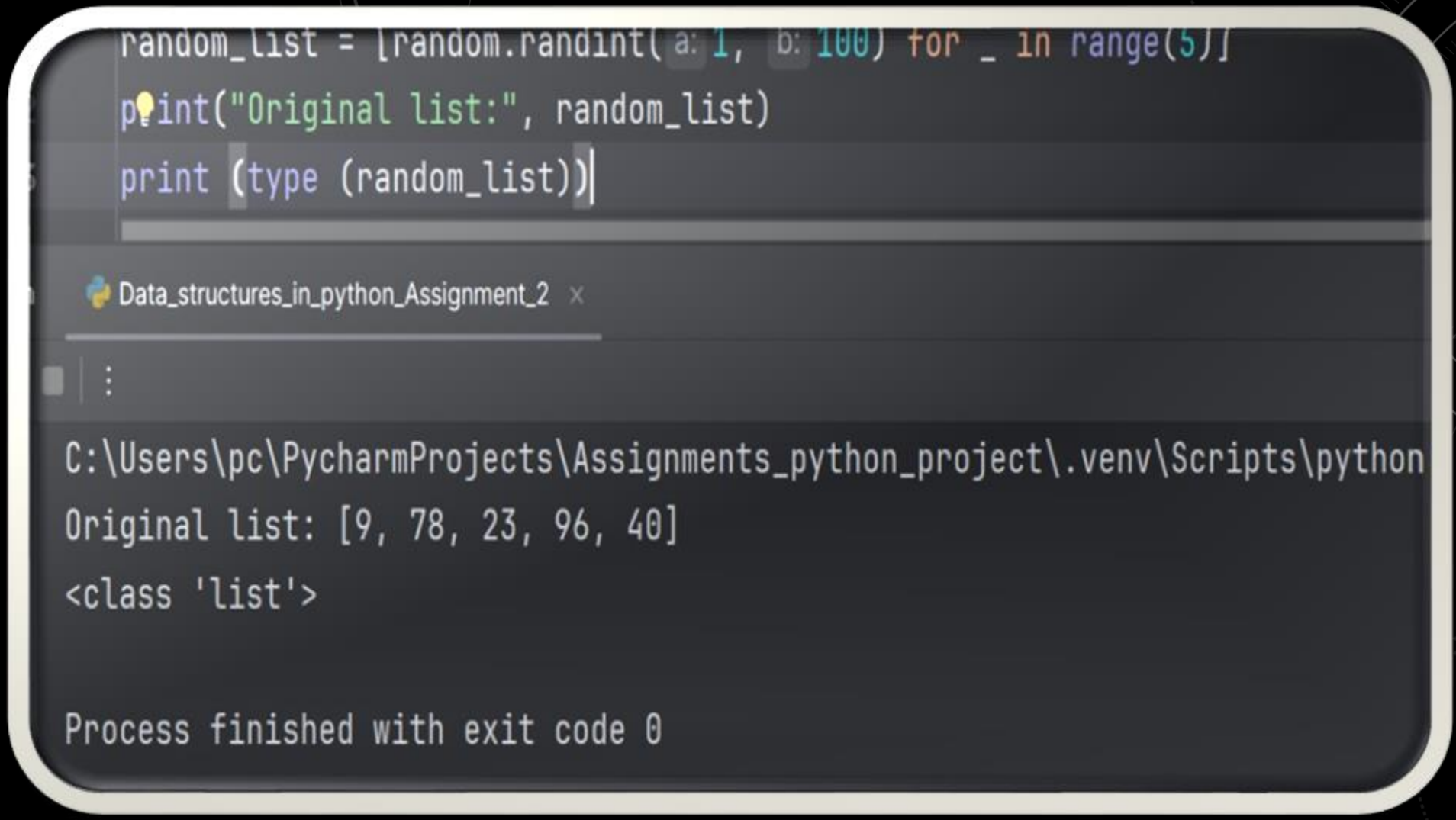
List Dictionary Set Tuple

ASSIGNMENT:2

Data structures in python



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

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

```
# Q2: Insert 3 new values to the list and print the updated list
new_values = [random.randint( a: 1,  b: 100) for _ in range(3)]
random_list.extend(new_values)
print("Updated list:", random_list)
```

Data_structures_in_python_Assignment_2

```
C:\Users\pc\PycharmProjects\Assignments_python_project\.venv\Scripts\
Original list: [56, 68, 91, 38, 40]
<class 'list'>
Updated list: [56, 68, 91, 38, 40, 79, 91, 3]


Process finished with exit code 0
```

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

```
#Q3: Use a for loop to print each element in the lis
for number in random_list: print(number)
```

Data_structures_in_python_Assignment_2

```
Updated list: [75, 12, 65, 97, 36, 80, 65, 92]
75
12
65
97
36
80
65
92

rocess finished with exit code 0
```

1. Create a dictionary with keys 'name', 'age', and 'address' and values 'John', 25, and 'New York' respectively.

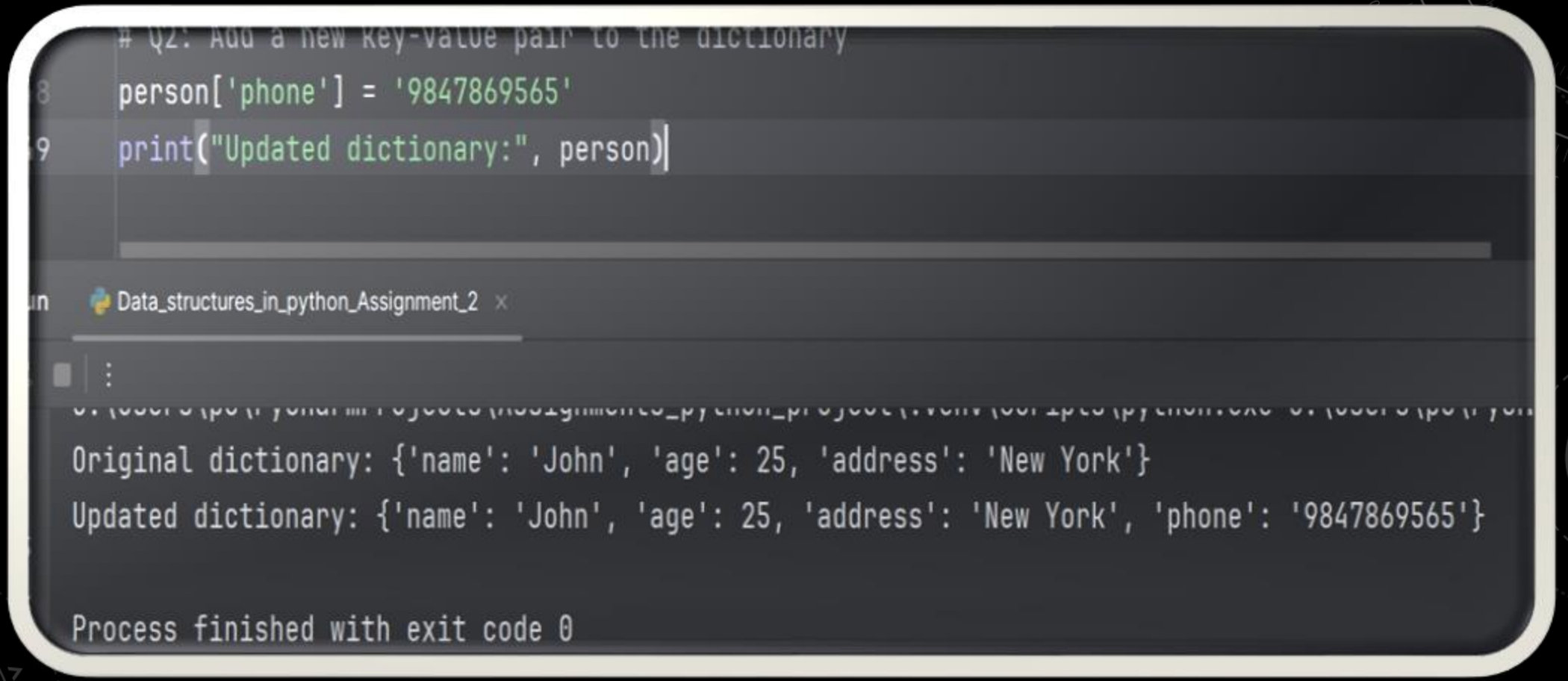
```python
# Q1: Create a dictionary
person = { 'name': 'John', 'age': 25, 'address': 'New York' }
print("Original dictionary:", person)
```

Data_structures_in_python_Assignment_2

```
C:\Users\pc\PycharmProjects\Assignments_python_project\.venv\Scripts\pytho
Original dictionary: {'name': 'John', 'age': 25, 'address': 'New York'}

Process finished with exit code 0
```

2. Add a new key-value pair to the dictionary created in Q1 with key 'phone' and value '9847869565'.



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

```python
# Topic: Set
# Q1: Create a set
my_set = {1, 2, 3, 4, 5}
print("Original set:", my_set)
```

Data_structures_in_python_Assignment_2

```
C:\Users\pc\PycharmProjects\Assignments_python_p
Original set: {1, 2, 3, 4, 5}

Process finished with exit code 0
```

2. Add the value 6 to the set created in Q1

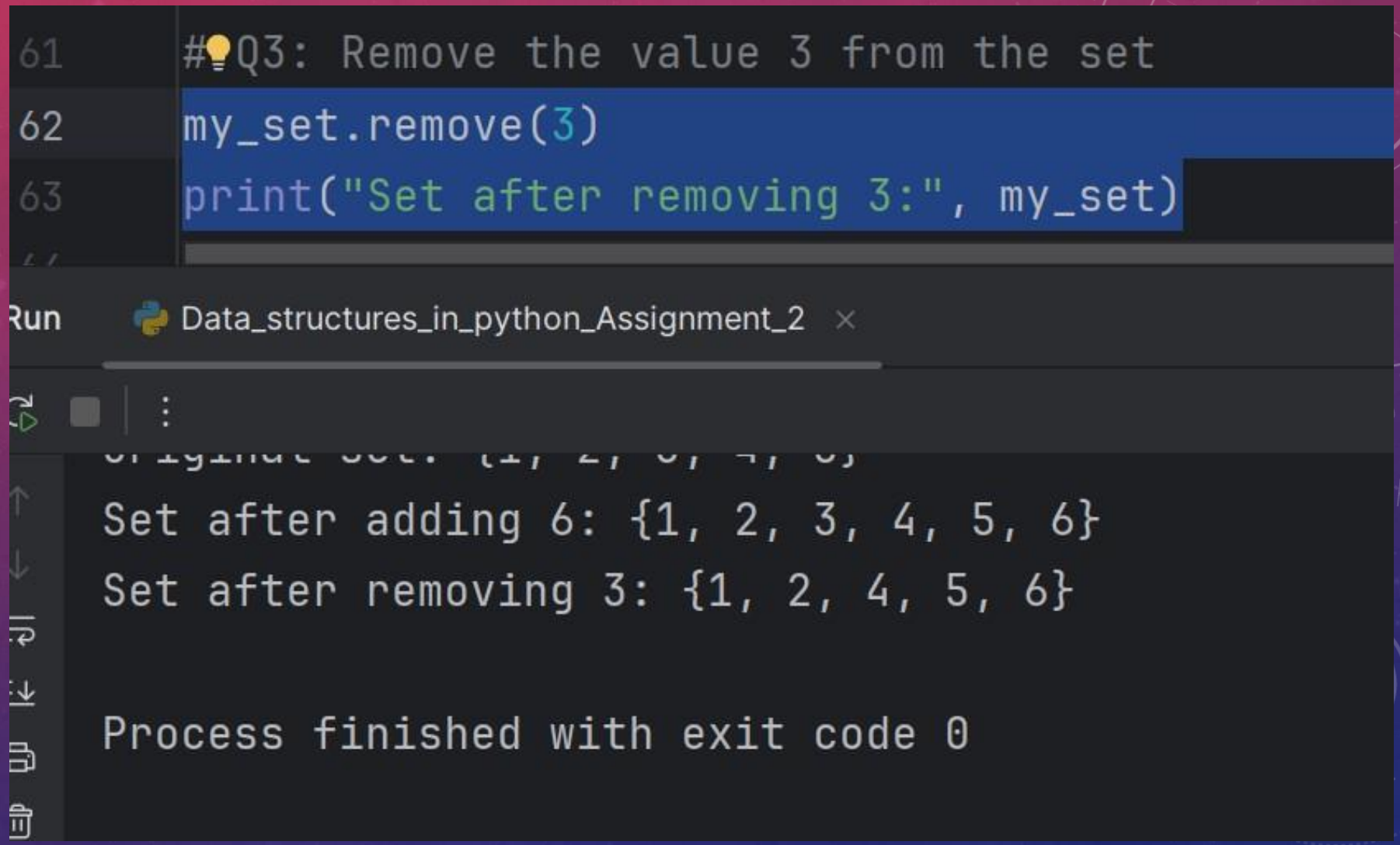
```
# Q2: Add the value 6 to the set
my_set.add(6)
print("Set after adding 6:", my_set)
```

Data_structures_in_python_Assignment_2

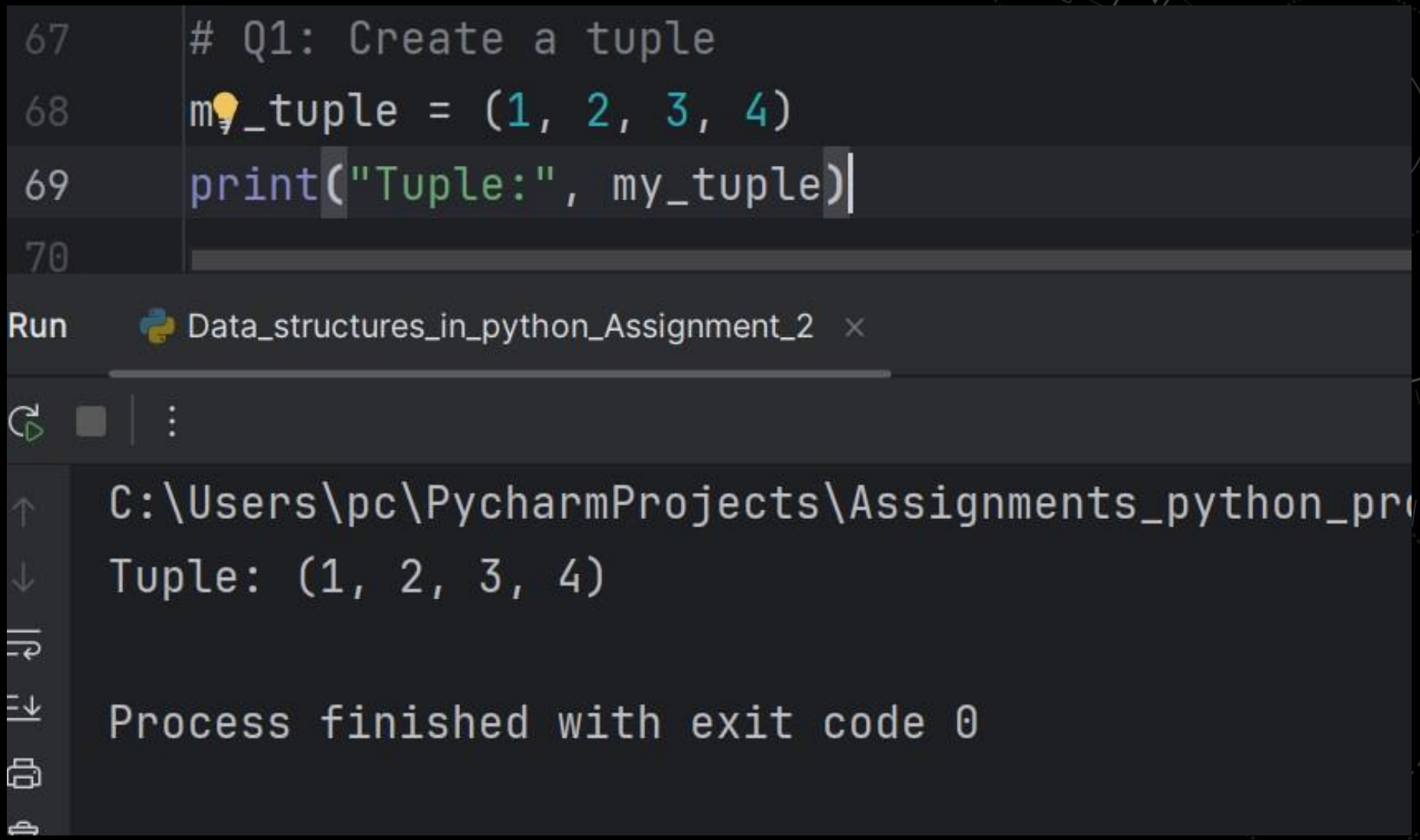
```
Original set: {1, 2, 3, 4, 5}
Set after adding 6: {1, 2, 3, 4, 5, 6}

Process finished with exit code 0
```

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



1. Create a tuple with values 1, 2, 3, and 4



2. Print the length of the tuple created in Q1.