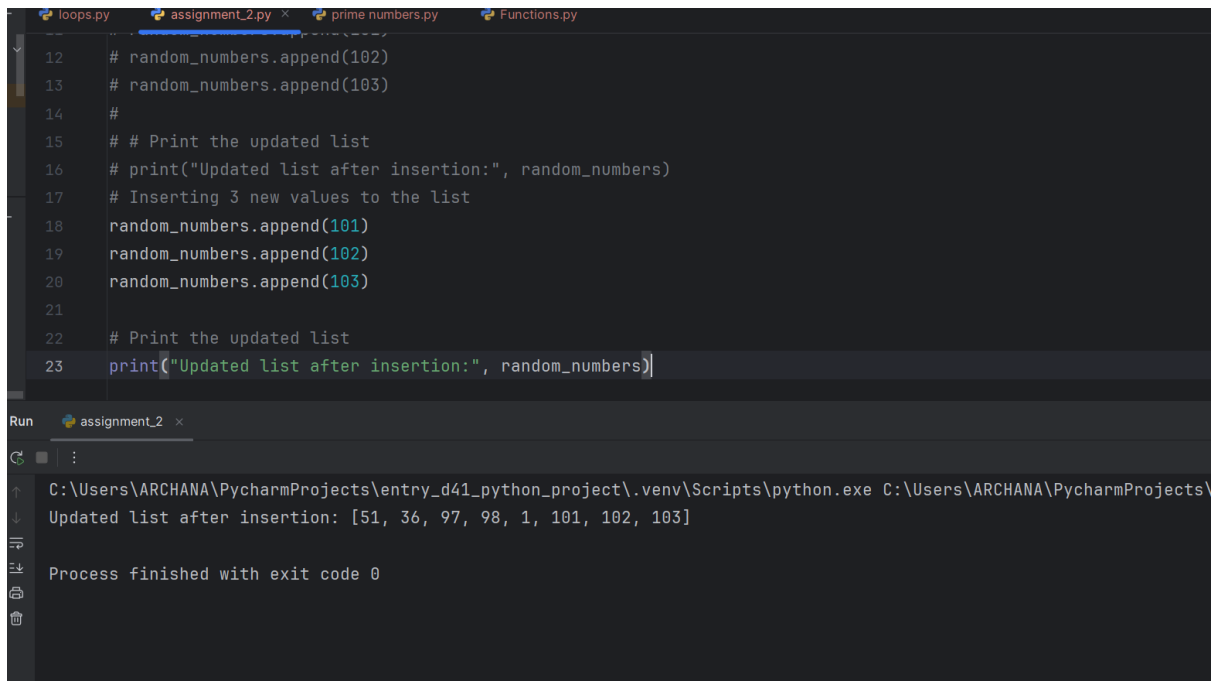


ASSIGNMENT_2

1.



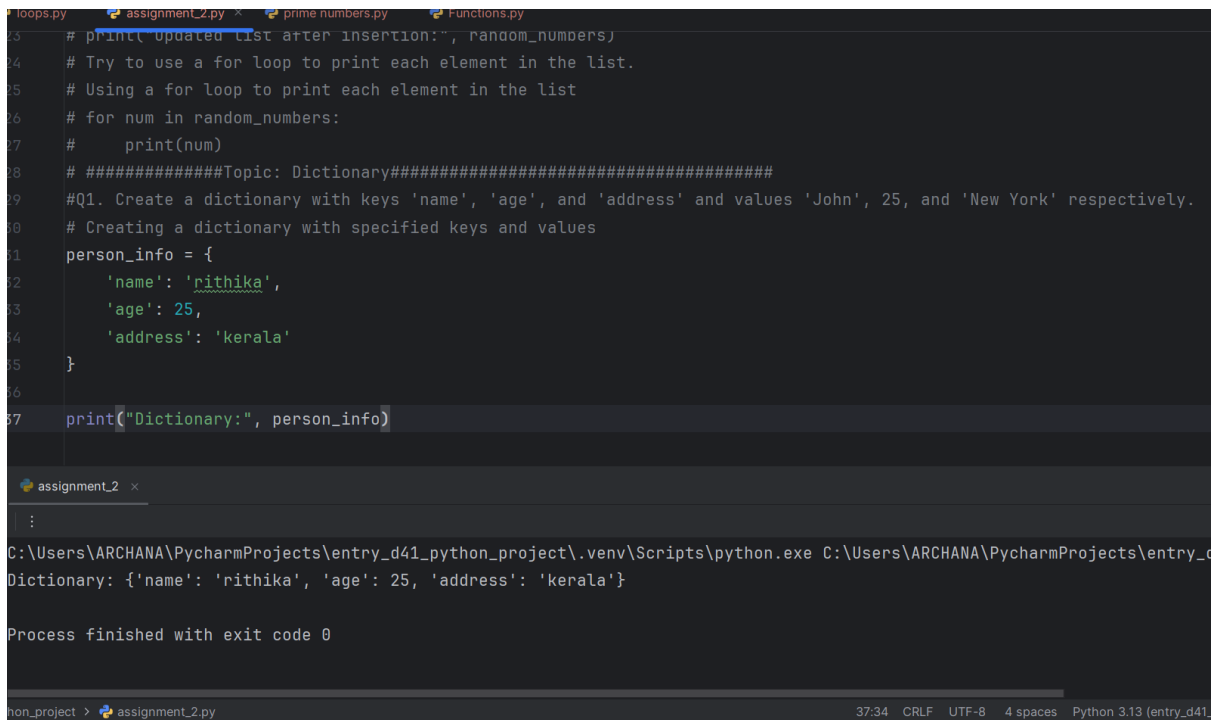
The screenshot shows a PyCharm IDE with a Python script named `assignment_2.py` open. The script contains the following code:

```
12 # random_numbers.append(102)
13 # random_numbers.append(103)
14 #
15 # # Print the updated list
16 # print("Updated list after insertion:", random_numbers)
17 # Inserting 3 new values to the list
18 random_numbers.append(101)
19 random_numbers.append(102)
20 random_numbers.append(103)
21
22 # Print the updated list
23 print("Updated list after insertion:", random_numbers)
```

The Run window shows the execution output:

```
C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\entry_d41_python_project\assignment_2.py
Updated list after insertion: [51, 36, 97, 98, 1, 101, 102, 103]
Process finished with exit code 0
```

2.



The screenshot shows a PyCharm IDE with a Python script named `assignment_2.py` open. The script contains the following code:

```
23 # print("Updated list after insertion:", random_numbers)
24 # Try to use a for loop to print each element in the list.
25 # Using a for loop to print each element in the list
26 # for num in random_numbers:
27 #     print(num)
28 # #####Topic: Dictionary#####
29 #Q1. Create a dictionary with keys 'name', 'age', and 'address' and values 'John', 25, and 'New York' respectively.
30 # Creating a dictionary with specified keys and values
31 person_info = {
32     'name': 'rithika',
33     'age': 25,
34     'address': 'kerala'
35 }
36
37 print("Dictionary:", person_info)
```

The Run window shows the execution output:

```
C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\entry_d41_python_project\assignment_2.py
Dictionary: {'name': 'rithika', 'age': 25, 'address': 'kerala'}
Process finished with exit code 0
```

The status bar at the bottom shows the file path `entry_d41_python_project > assignment_2.py`, the cursor position `37:34`, the encoding `CRLF`, the file type `UTF-8`, the indentation `4 spaces`, and the Python version `Python 3.13 (entry_d41_python_project)`.

3.

```
loops.py assignment_2.py x prime numbers.py Functions.py
28 # #####Topic: Dictionary#####
29 #Q1. Create a dictionary with keys 'name', 'age', and 'address' and values 'John', 25, and 'New York' respectively.
30 # Creating a dictionary with specified keys and values
31 person_info = {
32     'name': 'rithika',
33     'age': 25,
34     'address': 'kerala'
35 }
36
37 print("Dictionary:", person_info)
38 # Q2. Add a new key-value pair to the dictionary created in Q1 with key 'phone' and value '1234567890'.
39 # Adding a new key-value pair to the dictionary
40 person_info['phone'] = '1234567890'
41
42 print("Updated Dictionary:", person_info)
```

Run assignment_2 x

C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe C:\Users\ARCHANA\PycharmProjects\entry_d41_

Dictionary: {'name': 'rithika', 'age': 25, 'address': 'kerala'}

Updated Dictionary: {'name': 'rithika', 'age': 25, 'address': 'kerala', 'phone': '1234567890'}

Process finished with exit code 0

4.

```
loops.py assignment_2.py x prime numbers.py Functions.py
39 # # Adding a new key-value pair to the dictionary
40 # person_info['phone'] = '1234567890'
41 #
42 # print("Updated Dictionary:", person_info)
43 #####Topic: Set#####
44 # Creating a set with the specified values
45 my_set = {1, 2, 3, 4, 5}
46
47 print("Set:", my_set)
```

Run assignment_2 x

C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe C:\Users\ARCHANA\Pych

Set: {1, 2, 3, 4, 5}

Process finished with exit code 0

5.

```
5 my_set = {1, 2, 3, 4, 5}
6
7 print("Set:", my_set)
8 # Adding the value 6 to the set
9 my_set.add(6)
10
11 print("Set after adding 6:", my_set)
```

assignment_2 x

:

C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe

Set: {1, 2, 3, 4, 5}

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

Process finished with exit code 0

6.

```
49 # my_set.add(6)
50 #
51 # print("Set after adding 6:", my_set)
52 # # Removing the value 3 from the set
53 # my_set.remove(3)
54 #
55 # print("Set after removing 3:", my_set)
56 #####tuple#####
57 # Creating a tuple with specified values
58 my_tuple = (1, 2, 3, 4)
59
60 print("Tuple:", my_tuple)
```

assignment_2 x

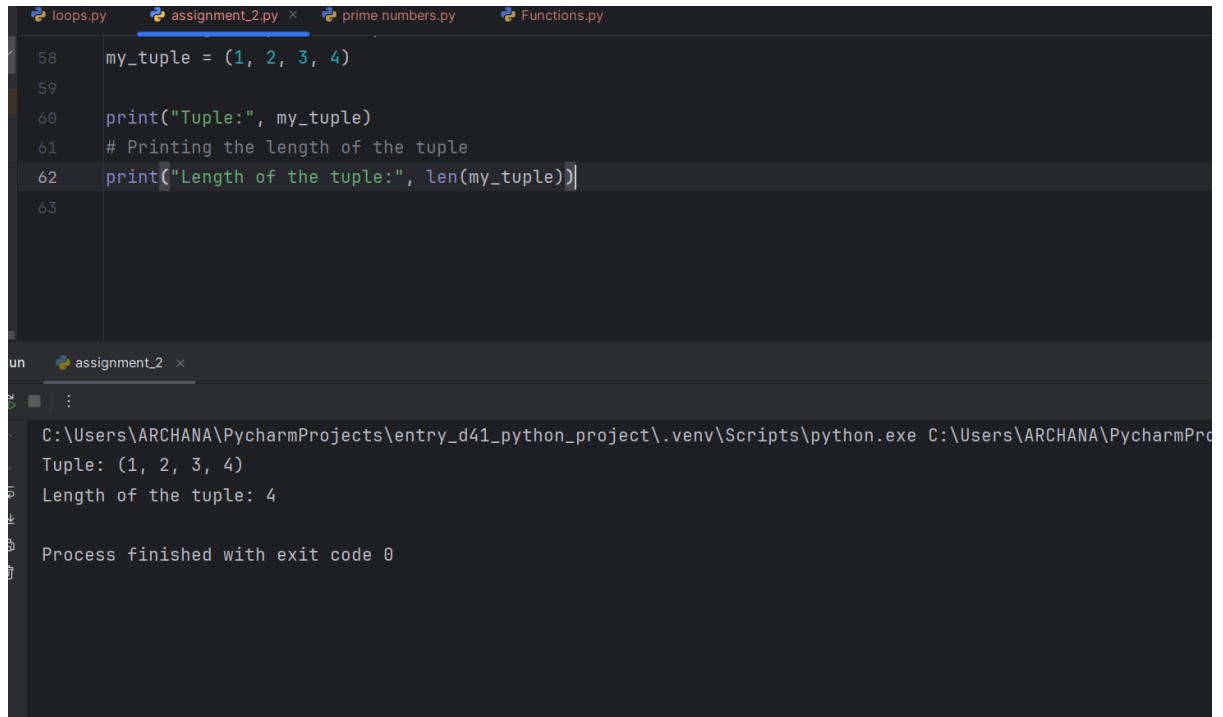
:

C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe C:\Users\ARCHANA\PycharmProjects\entry_d41_py

Tuple: (1, 2, 3, 4)

Process finished with exit code 0

7.



The image shows a PyCharm IDE window with four tabs: loops.py, assignment_2.py (active), prime numbers.py, and Functions.py. The active tab contains the following Python code:

```
58 my_tuple = (1, 2, 3, 4)
59
60 print("Tuple:", my_tuple)
61 # Printing the length of the tuple
62 print("Length of the tuple:", len(my_tuple))
63
```

Below the code editor is a terminal window titled "assignment_2". It shows the command prompt path and the output of the script:

```
C:\Users\ARCHANA\PycharmProjects\entry_d41_python_project\.venv\Scripts\python.exe C:\Users\ARCHANA\PycharmPro
Tuple: (1, 2, 3, 4)
Length of the tuple: 4

Process finished with exit code 0
```