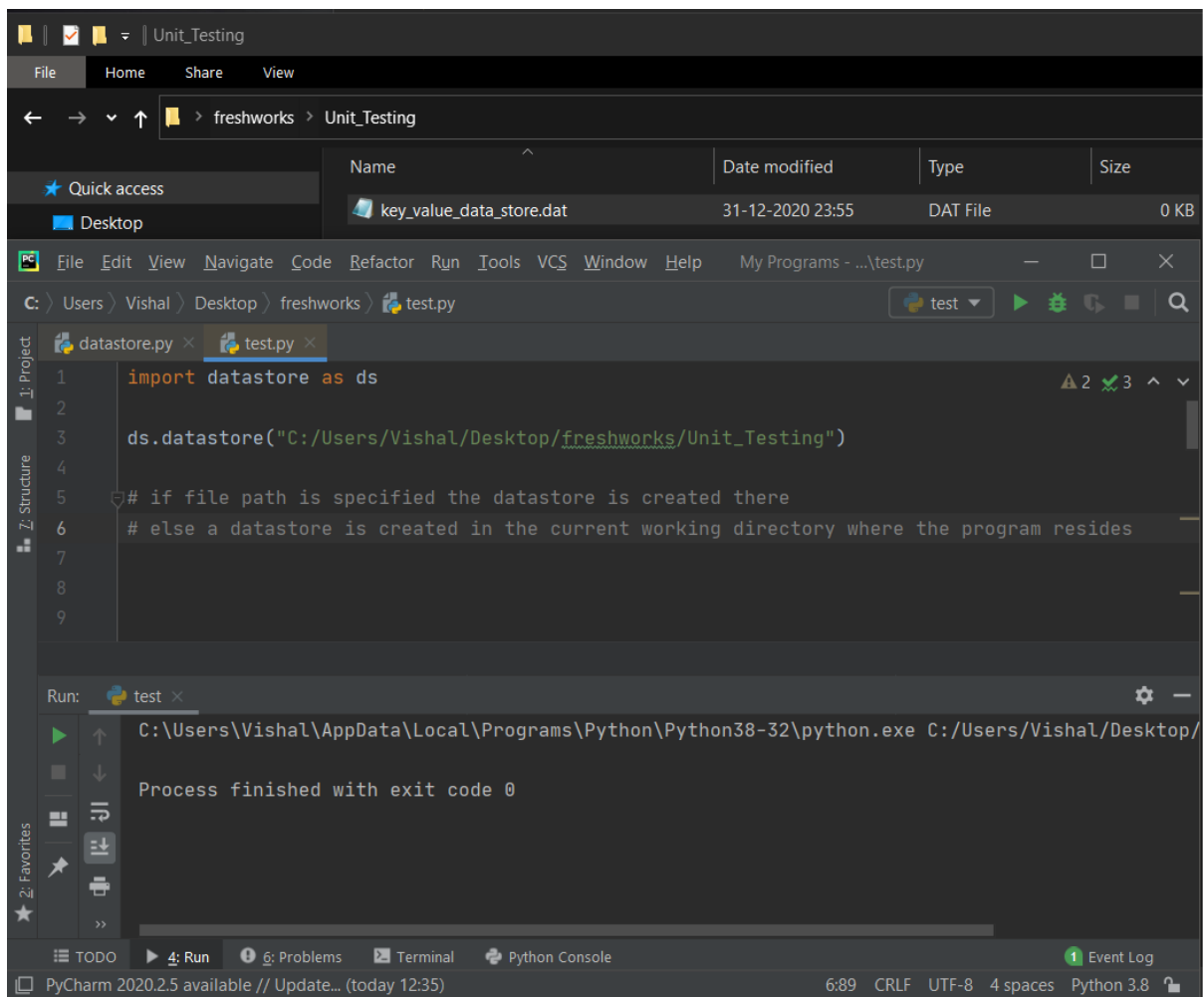
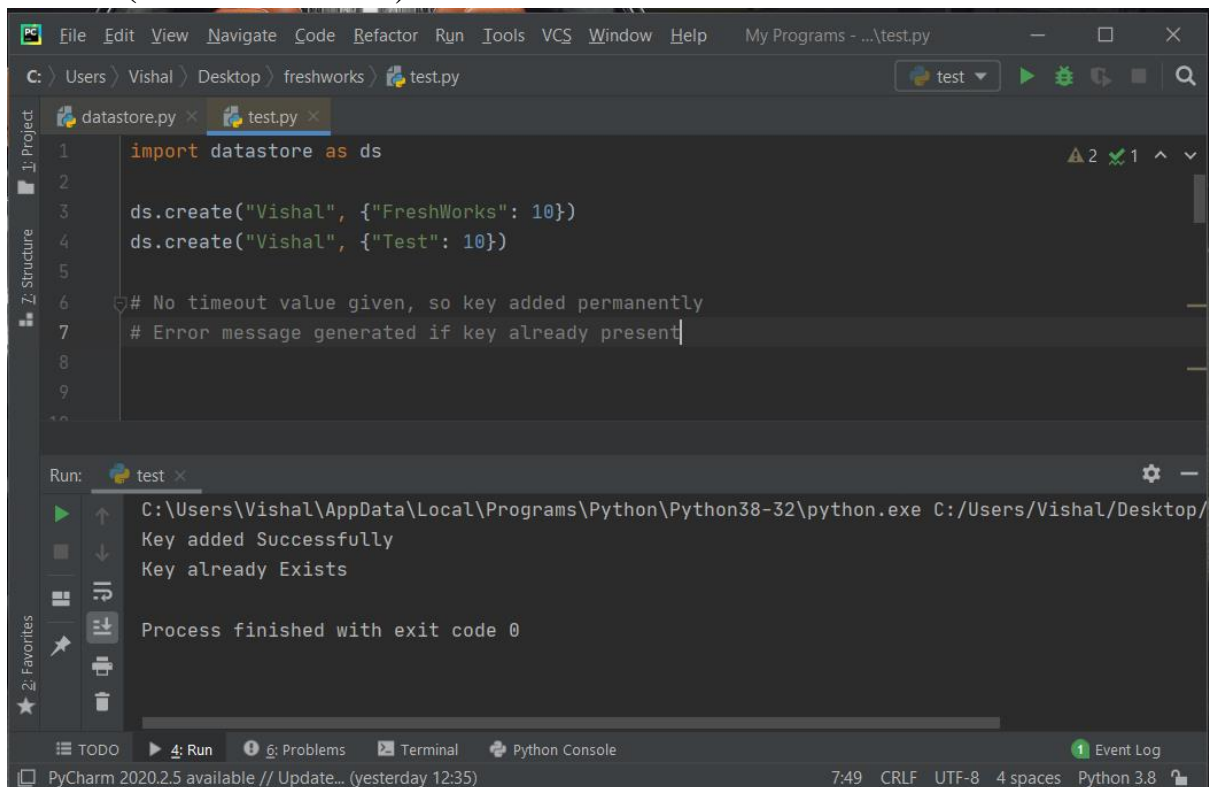


Initialize (With and Without File Path):



Create (Without Timeout):



The screenshot shows the PyCharm IDE with a Python file named `test.py` open. The code in the editor is as follows:

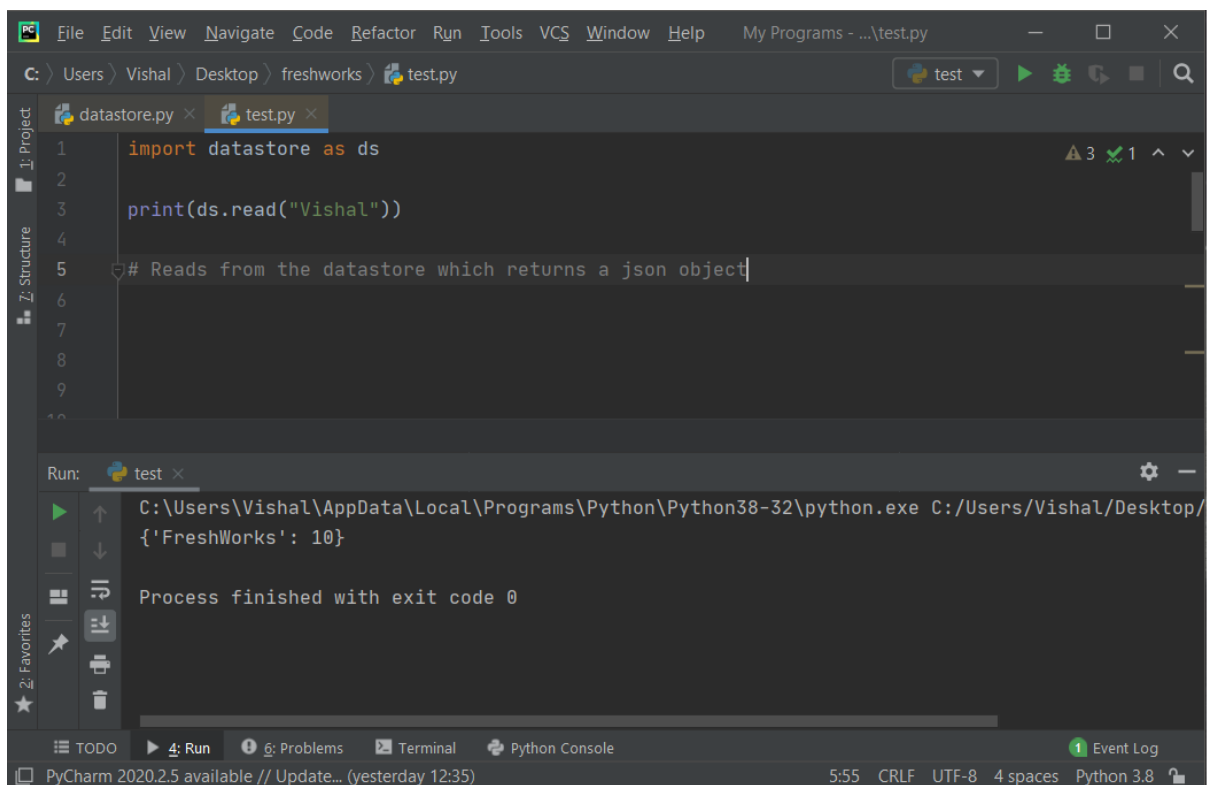
```
1 import datastore as ds
2
3 ds.create("Vishal", {"FreshWorks": 10})
4 ds.create("Vishal", {"Test": 10})
5
6 # No timeout value given, so key added permanently
7 # Error message generated if key already present
```

The Run window at the bottom shows the output of the execution:

```
Run: test
C:\Users\Vishal\AppData\Local\Programs\Python\Python38-32\python.exe C:/Users/Vishal/Desktop/
Key added Successfully
Key already Exists
Process finished with exit code 0
```

The status bar at the bottom indicates the file encoding is UTF-8, 4 spaces, and Python 3.8.

Read:



The screenshot shows the PyCharm IDE with the same `test.py` file. The code in the editor is:

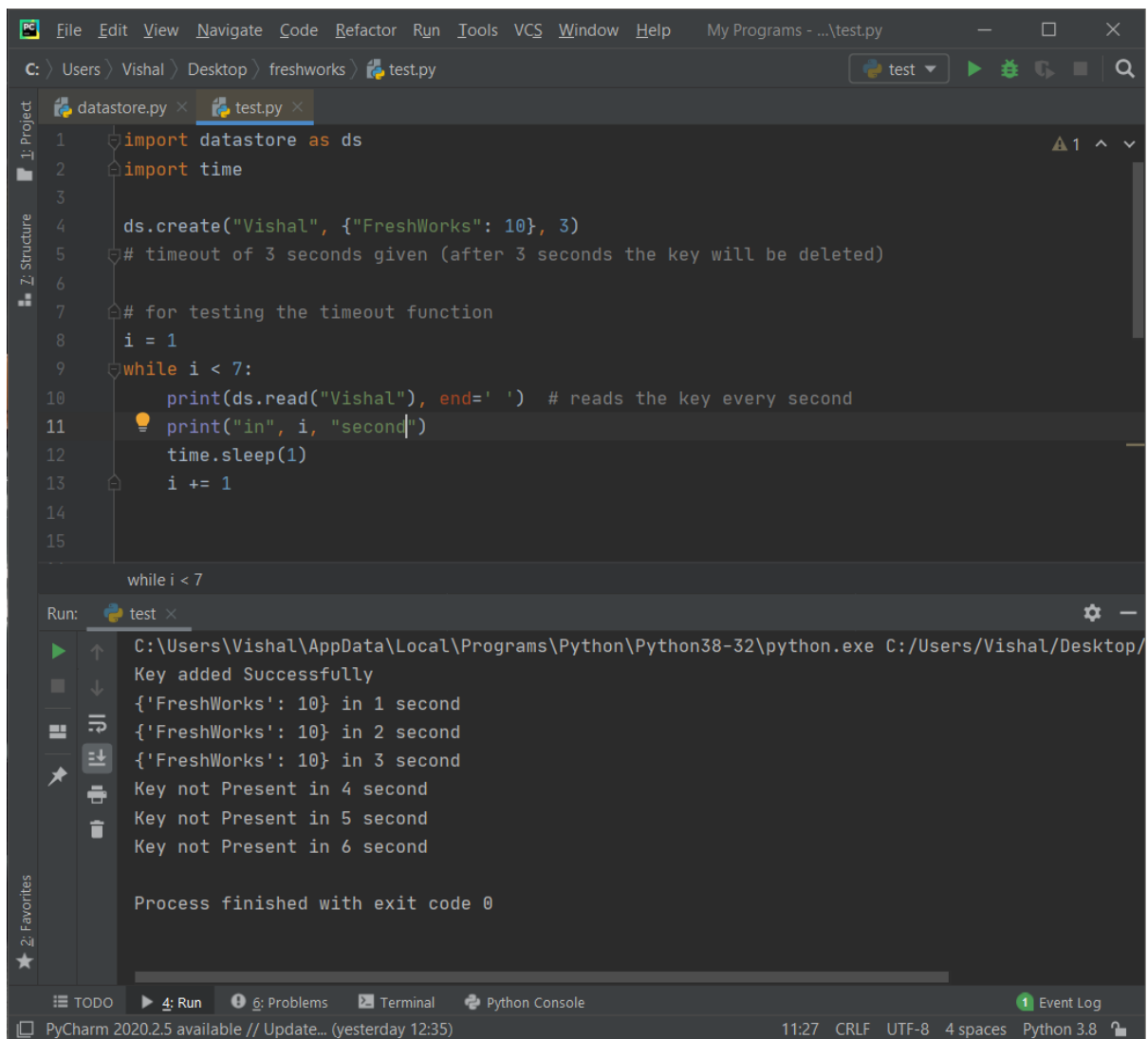
```
1 import datastore as ds
2
3 print(ds.read("Vishal"))
4
5 # Reads from the datastore which returns a json object
```

The Run window shows the output:

```
Run: test
C:\Users\Vishal\AppData\Local\Programs\Python\Python38-32\python.exe C:/Users/Vishal/Desktop/
{'FreshWorks': 10}
Process finished with exit code 0
```

The status bar at the bottom shows the same settings as the previous screenshot.

Create (With Timeout):



The image shows a PyCharm IDE window with a Python script named `test.py` and its execution output in the Run console.

Script Code:

```
1 import datastore as ds
2 import time
3
4 ds.create("Vishal", {"FreshWorks": 10}, 3)
5 # timeout of 3 seconds given (after 3 seconds the key will be deleted)
6
7 # for testing the timeout function
8 i = 1
9 while i < 7:
10     print(ds.read("Vishal"), end=' ') # reads the key every second
11     print("in", i, "second")
12     time.sleep(1)
13     i += 1
14
15
```

Run Console Output:

```
Run: test x
C:\Users\Vishal\AppData\Local\Programs\Python\Python38-32\python.exe C:/Users/Vishal/Desktop/
Key added Successfully
{'FreshWorks': 10} in 1 second
{'FreshWorks': 10} in 2 second
{'FreshWorks': 10} in 3 second
Key not Present in 4 second
Key not Present in 5 second
Key not Present in 6 second

Process finished with exit code 0
```

The Run console shows the script's execution path and the output of the `print` statements. The key is successfully added and read for the first three seconds, but it is not present for the subsequent seconds, demonstrating the timeout functionality.

Delete:

