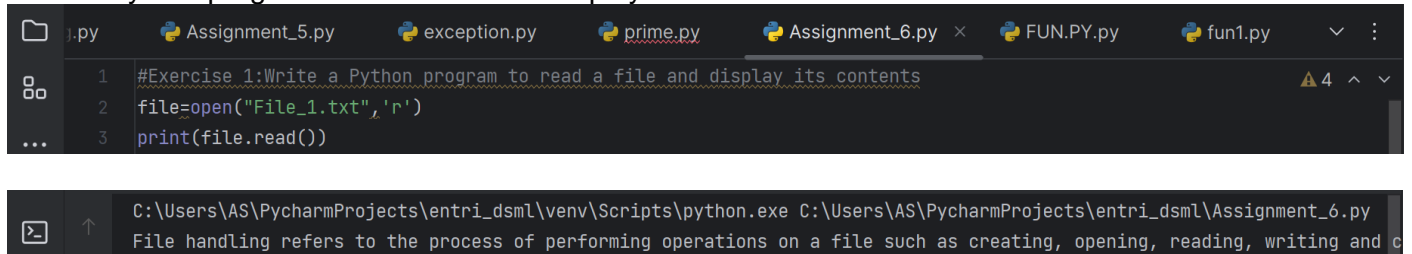


### Exercise 1: (score : 1)

Write a Python program to read a file and display its contents

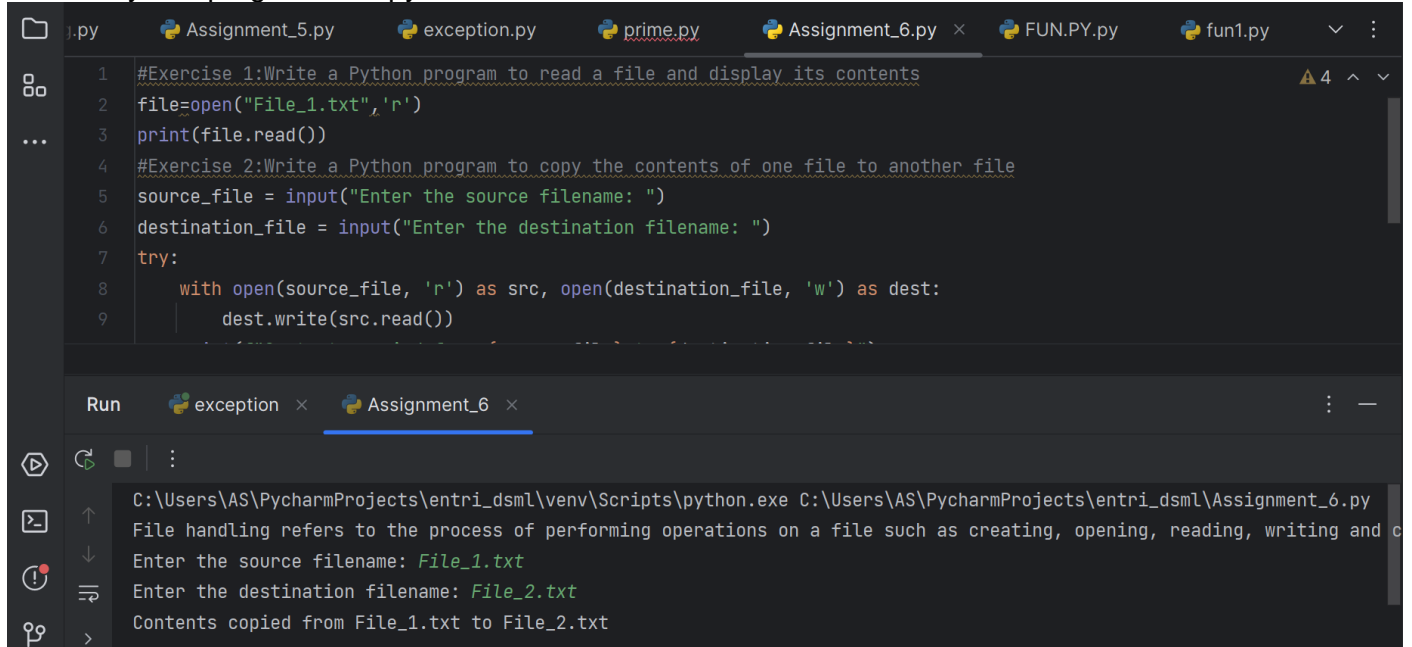


```
1 #Exercise 1:Write a Python program to read a file and display its contents
2 file=open("File_1.txt",'r')
3 print(file.read())
```

C:\Users\AS\PycharmProjects\entri\_dsml\venv\Scripts\python.exe C:\Users\AS\PycharmProjects\entri\_dsml\Assignment\_6.py  
File handling refers to the process of performing operations on a file such as creating, opening, reading, writing and c

### Exercise 2: (score : 1)

Write a Python program to copy the contents of one file to another file



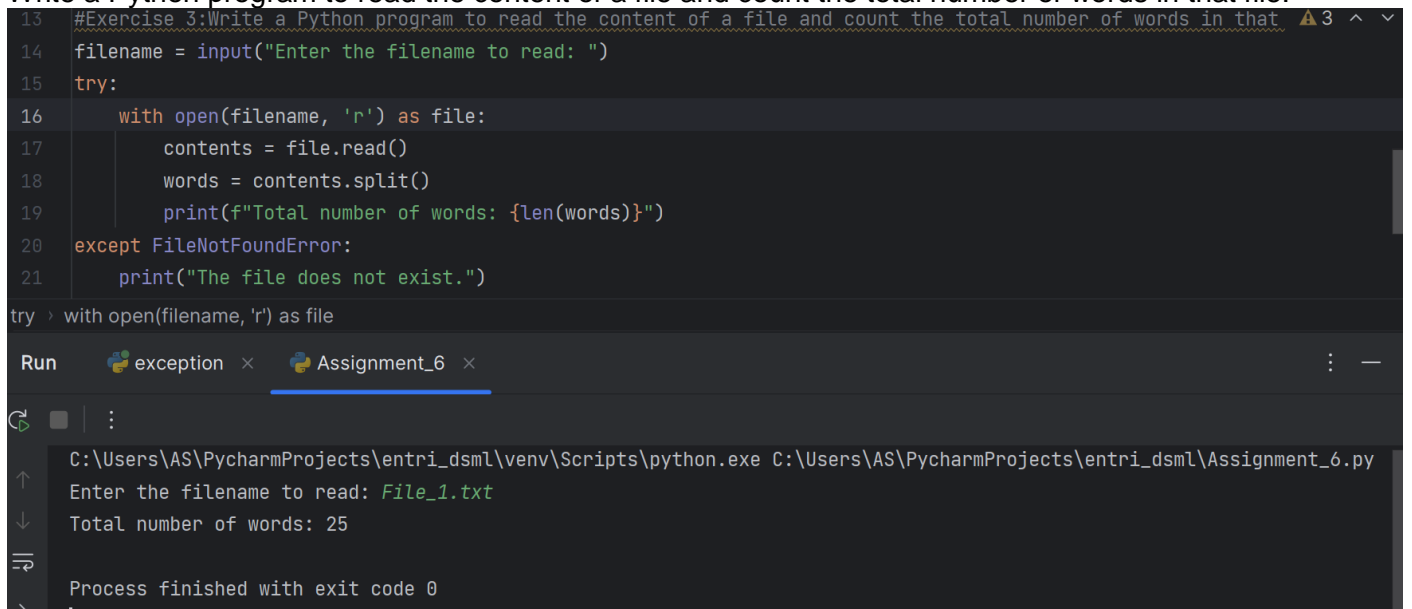
```
1 #Exercise 1:Write a Python program to read a file and display its contents
2 file=open("File_1.txt",'r')
3 print(file.read())
4 #Exercise 2:Write a Python program to copy the contents of one file to another file
5 source_file = input("Enter the source filename: ")
6 destination_file = input("Enter the destination filename: ")
7 try:
8     with open(source_file, 'r') as src, open(destination_file, 'w') as dest:
9         dest.write(src.read())
```

Run exception x Assignment\_6 x

C:\Users\AS\PycharmProjects\entri\_dsml\venv\Scripts\python.exe C:\Users\AS\PycharmProjects\entri\_dsml\Assignment\_6.py  
File handling refers to the process of performing operations on a file such as creating, opening, reading, writing and c  
Enter the source filename: File\_1.txt  
Enter the destination filename: File\_2.txt  
Contents copied from File\_1.txt to File\_2.txt

### Exercise 3: (score : 2)

Write a Python program to read the content of a file and count the total number of words in that file.



```
13 #Exercise 3:Write a Python program to read the content of a file and count the total number of words in that
14 filename = input("Enter the filename to read: ")
15 try:
16     with open(filename, 'r') as file:
17         contents = file.read()
18         words = contents.split()
19         print(f"Total number of words: {len(words)}")
20 except FileNotFoundError:
21     print("The file does not exist.")
```

try > with open(filename, 'r') as file

Run exception x Assignment\_6 x

C:\Users\AS\PycharmProjects\entri\_dsml\venv\Scripts\python.exe C:\Users\AS\PycharmProjects\entri\_dsml\Assignment\_6.py  
Enter the filename to read: File\_1.txt  
Total number of words: 25  
Process finished with exit code 0

### Exercise 4: (score : 1)

Write a Python program that prompts the user to input a string and converts it to an integer. Use try-except blocks to handle any exceptions that might occur

```

22 #Exercise 4:Write a Python program that prompts the user to input a string and converts it to an integer. Use
23 user_input = input("Enter a number: ")
24 try:
25     number = int(user_input)
26     print(f"You entered the number: {number}")
27 except ValueError:
28     print("Invalid input. Please enter an integer.")
29

```

Run exception x Assignment\_6 x

```

C:\Users\AS\PycharmProjects\entri_dsml\venv\Scripts\python.exe C:\Users\AS\PycharmProjects\entri_dsml\Assignment_6.py
Enter a number: 67
You entered the number: 67
Process finished with exit code 0

```

```

C:\Users\AS\PycharmProjects\entri_dsml\venv\Scripts\python.exe C:\Users\AS\PycharmProjects\entri_dsml\Assignment_6.py
Enter a number: hi
Invalid input. Please enter an integer.
Process finished with exit code 0

```

#### Exercise 5: (score : 1)

Write a Python program that prompts the user to input a list of integers and raises an exception if any of the integers in the list are negative.

```

29 #Exercise 5:Write a Python program that prompts the user to input a list of integers and raises an exception
30 try:
31     user_input = input("Enter a list of integers separated by spaces: ")
32     numbers = list(map(int, user_input.split()))
33     for num in numbers:
34         if num < 0:
35             raise ValueError("Negative integers are not allowed.")
36     print("All integers are non-negative.")
37 except ValueError as e:

```

Run exception x Assignment\_6 x

```

C:\Users\AS\PycharmProjects\entri_dsml\venv\Scripts\python.exe C:\Users\AS\PycharmProjects\entri_dsml\Assignment_6.py
Enter a list of integers separated by spaces: 5 -6 -7 9
Negative integers are not allowed.

```

#### Exercise 6: (score : 2)

Write a Python program that prompts the user to input a list of integers and computes the average of those integers. Use try-except blocks to handle any exceptions that might occur. use the finally clause to print a message indicating that the program has finished running.

```
39 #Exercise 6:Write a Python program that prompts the user to input a list of integers and computes the ave ⚠️ 8 ✅ 1 ^ v :
40 try:
41     user_input = input("Enter a list of integers separated by spaces: ")
42     numbers = list(map(int, user_input.split()))
43     average = sum(numbers) / len(numbers)
44     print(f"The average is: {average}")
45 except ZeroDivisionError:
46     print("The list is empty. Cannot compute average.")
47 except ValueError:
48     print("Invalid input. Please enter integers only.")
49 finally:
```

Run exception x Assignment\_6 x

Enter a list of integers separated by spaces: 5 6 7 8  
The average is: 6.5  
Program has finished running.

### Exercise 7 : (score : 2)

Write a Python program that prompts the user to input a filename and writes a string to that file. Use try-except blocks to handle any exceptions that might occur and print a welcome message if there is no exception occurred.

```
51 #Exercise 7 :Write a Python program that prompts the user to input a filename and writes a string to tha ⚠️ 10 ✅ 1 ^
52 filename = input("Enter the filename to write: ")
53 string_to_write = input("Enter the string to write to the file: ")
54 try:
55     with open(filename, 'w') as file:
56         file.write(string_to_write)
57     print("String written to the file successfully!")
58     print("Welcome!")
59 except Exception as e:
60     print(f"An error occurred: {e}")
61
```

Run exception x Assignment\_6 x

Enter the filename to write: File\_3  
Enter the string to write to the file: Hello,How are you  
String written to the file successfully!  
Welcome!