

The screenshot shows the PyCharm IDE with a project named 'entri_d41_pyproject'. The file 'FileHandling.py' is open, displaying a series of exercise instructions as comments. The code includes opening a file 'FHass.txt' and printing its contents. The Run window shows the output: 'Hello.' and 'This is file handling.', with a message 'Process finished with exit code 0'.

```
1 # Exercise 1: (score : 1) Write a Python program to read a file and display its contents
2 file1=open("FHass.txt",'r')
3 print(file1.read())
4
5 # Exercise 2: (score : 1) Write a Python program to copy the contents of one file to another file
6 # 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.
7 # Exercise 4: (score : 1) Write a Python program that prompts the user to input a string and converts it to an integer.
8 # Use try-except blocks to handle any exceptions that might occur
9 # 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
10 # integers in the list are negative.
11 # Exercise 6: (score : 2) Write a Python program that prompts the user to input a list of integers and computes the average
12 # of those integers. Use try-except blocks to handle any exceptions that might occur. use the finally clause to print a message
13 # indicating that the program has finished running.
14 # Exercise 7 : (score : 2) Write a Python program that prompts the user to input a filename and writes a string to that file.
15 # Use try-except blocks to handle any exceptions that might occur and print a welcome message if there is no exception occurred.
16
```

Run FileHandling

C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\FileHandling.py
Hello.
This is file handling.
Process finished with exit code 0

The screenshot shows the PyCharm IDE with the same project. The file 'FileHandling.py' now contains code for Exercise 2, which copies the contents of 'FHass.txt' to 'FHass2.txt'. The Run window shows the same output as the previous screenshot.

```
1 # Exercise 1: (score : 1) Write a Python program to read a file and display its contents
2 # file1=open("FHass.txt",'r')
3 # print(file1.read())
4
5 # Exercise 2: (score : 1) Write a Python program to copy the contents of one file to another file
6 with open('FHass.txt', 'r') as file1, open('FHass2.txt', 'w') as file2:
7     file2.write(file1.read())
8 file3=open("FHass2.txt",'r')
9 print(file3.read())
10
11 # 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.
12 # Exercise 4: (score : 1) Write a Python program that prompts the user to input a string and converts it to an integer.
13 # Use try-except blocks to handle any exceptions that might occur
14 # 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
15 # integers in the list are negative.
16 # Exercise 6: (score : 2) Write a Python program that prompts the user to input a list of integers and computes the average
```

Run FileHandling

C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\FileHandling.py
Hello.
This is file handling.
Process finished with exit code 0

This screenshot shows the PyCharm IDE with the file `FileHandling.py` open. The code contains five exercises:

- Exercise 2: Copy contents of one file to another.
- Exercise 3: Read a file and count the total number of words.
- Exercise 4: Prompt user for a string and convert it to an integer.
- Exercise 5: Prompt user for a list of integers and raise an exception if any are negative.

The Run window shows the following output:

```
C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\FileHandling.py
Hello.
This is file handling.
Total number of words: 5
Process finished with exit code 0
```

This screenshot shows the PyCharm IDE with the file `FileHandling.py` open. The code contains three exercises:

- Exercise 4: Prompt user for a string and convert it to an integer.
- Exercise 5: Prompt user for a list of integers and raise an exception if any are negative.
- Exercise 6: Prompt user for a list of integers and compute the average.

The Run window shows the following output:

```
C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\FileHandling.py
enter string which is to be converted to int:hi
This string cannot be converted to integer
Process finished with exit code 0
```

```
26 # Exercise 5: (score : 1) Write a Python program that prompts the user to input a list of integers and raises an exception if any o
27 # integers in the list are negative.
28 try:
29     l1 = list(map(int, input("Enter a list of integers: ").split()))
30     for i in l1:
31         if i < 0:
32             raise ValueError("Negative integer found", i)
33 except ValueError as e:
34     print(f"Error: {e}")
35
36
37 # Exercise 6: (score : 2) Write a Python program that prompts the user to input a list of integers and computes the average
38 # of those integers. Use try-except blocks to handle any exceptions that might occur. use the finally clause to print a message
39 # indicating that the program has finished running.
40 # Exercise 7 : (score : 2) Write a Python program that prompts the user to input a filename and writes a string to that file.
41 # Use try-except blocks to handle any exceptions that might occur and print a welcome message if there is no exception occurred.
```

Run FileHandling x

C:\Users\91759\PycharmProjects\entr_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entr_d41_pyproject\Assignments\FileHandling.py

Enter a list of integers: 5 8 -7 0

Error: ('Negative integer found', -7)

Process finished with exit code 0

entr_d41_pyproject > Assignments > FileHandling.py 34:29 CRLF UTF-8 4 spaces Python 3.11 (entr_d41_pyproject)

```
34 # print(f"Error: {e}")
35
36 # Exercise 6: (score : 2) Write a Python program that prompts the user to input a list of integers and computes the average
37 # of those integers. Use try-except blocks to handle any exceptions that might occur. use the finally clause to print a message
38 # indicating that the program has finished running.
39 try:
40     numbers = list(map(int, input("Enter a list of integers: ").split()))
41     average = sum(numbers) / len(numbers)
42     print(f"The average is: {average}")
43 except ValueError:
44     print("Error: Please enter only integers.")
45 finally:
46     print("Thank you.")
47
48 # Exercise 7 : (score : 2) Write a Python program that prompts the user to input a filename and writes a string to that file.
49 # Use try-except blocks to handle any exceptions that might occur and print a welcome message if there is no exception occurred.
```

Run FileHandling x

C:\Users\91759\PycharmProjects\entr_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entr_d41_pyproject\Assignments\FileHandling.py

Enter a list of integers: 1 2 3 4 5

The average is: 3.0

Thank you.

Process finished with exit code 0

entr_d41_pyproject > Assignments > FileHandling.py 46:22 CRLF UTF-8 4 spaces Python 3.11 (entr_d41_pyproject)

The screenshot shows the PyCharm IDE with the 'FileHandling.py' file open. The code is as follows:

```
48 # Exercise 7 : (score : 2) Write a Python program that prompts the user to input a filename and writes a string to that file.
49 # Use try-except blocks to handle any exceptions that might occur and print a welcome message if there is no exception occurred.
50 try:
51     filename = input("Enter the filename: ")
52     with open(filename, 'w') as file:
53         file.write("Welcome to file handling in Python!\n")
54     print(f"String written to file successfully!")
55 except Exception as e:
56     print(f"An error occurred: {e}")
57
58
59
60
```

The 'Run' window shows the following output:

```
C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\File
Enter the filename: FHass.txt
String written to file successfully!

Process finished with exit code 0
```

The status bar at the bottom indicates: 54:40 CRLF UTF-8 4 spaces Python 3.11 (entri_d41_pyproject)

The screenshot shows the PyCharm IDE with the 'FHass.txt' file open. The content of the file is:

```
1 Welcome to file handling in Python!
2
```

The 'Run' window shows the following output:

```
C:\Users\91759\PycharmProjects\entri_d41_pyproject\.venv\Scripts\python.exe C:\Users\91759\PycharmProjects\entri_d41_pyproject\Assignments\File
Enter the filename: FHass.txt
String written to file successfully!

Process finished with exit code 0
```

The status bar at the bottom indicates: 2:1 CRLF UTF-8 4 spaces Python 3.11 (entri_d41_pyproject)