

BP D42_Pythonproject Version control

Current File

File_handling.py exception_handling.py 5_file&exception handling.py

```
11 # print(f'An error occurred: {e}')
12 ##Exercise 2
13 try:
14     source_file = input("Enter the source file name: ")
15     destination_file = input("Enter the destination file name: ")
16
17     with open(source_file, 'r') as src:
18         content = src.read()
19     with open(destination_file, 'w') as dest:
20         dest.write(content)
21
22     print(f'Contents of '{source_file}' copied to '{destination_file}'.')
23 except FileNotFoundError:
24     print("The source file does not exist.")
25 except Exception as e:
```

Run 5_file&exception handling

C:\Users\amrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"

Enter the source file name: newfile.txt

Enter the destination file name: destination.txt

Contents of 'newfile.txt' copied to 'destination.txt'.

Process finished with exit code 0

D:\DSML\Python\5_file&exception handling.py 23:20 CRLF UTF-8 4 spaces Python 3.13 (D42_Pythonproject)

22:51 18-01-2025

BP D42_Pythonproject Version control

Current File

File_handling.py exception_handling.py 5_file&exception handling.py

```
46
47
48 ##EXERCISE 5
49 try:
50     user_input = input("Enter a list of integers separated by spaces: ")
51     numbers = list(map(int, user_input.split()))
52     for num in numbers:
53         if num < 0:
54             raise ValueError("Negative numbers are not allowed.")
55     print("All numbers are positive.")
56 except ValueError as e:
57     print(f"Error: {e}")
58
59
60
```

Run 5_file&exception handling

C:\Users\anrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"

Enter a list of integers separated by spaces: 12 15 20

All numbers are positive.

Process finished with exit code 0

D:\DSML\Python\5_file&exception handling.py 67:48 CRLF UTF-8 4 spaces Python 3.13 (D42_Pythonproject)

23:02 18-01-2025

BP D42_Pythonproject Version control

Current File

File_handling.py exception_handling.py 5_file&exception handling.py

```
46
47
48 ##EXERCISE 5
49 try:
50     user_input = input("Enter a list of integers separated by spaces: ")
51     numbers = list(map(int, user_input.split()))
52     for num in numbers:
53         if num < 0:
54             raise ValueError("Negative numbers are not allowed.")
55     print("All numbers are positive.")
56 except ValueError as e:
57     print(f"Error: {e}")
58
59
60
```

Run 5_file&exception handling

C:\Users\anrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"

Enter a list of integers separated by spaces: 50 -55 60

Error: Negative numbers are not allowed.

Enter a list of integers separated by spaces: |

D:\DSML\Python\5_file&exception handling.py 67:48 CRLF UTF-8 4 spaces Python 3.13 (D42_Pythonproject)

23:03 18-01-2025

BP D42_Pythonproject Version control

Current File

File_handling.py exception_handling.py 5_file&exception handling.py

```
59
60 ##EXERCISE 6
61 try:
62     user_input = input("Enter a list of integers separated by spaces: ")
63     numbers = list(map(int, user_input.split()))
64     average = sum(numbers) / len(numbers)
65     print(f"The average is {average:.2f}.")
66 except ZeroDivisionError:
67     print("Error: Cannot compute the average of an empty list.")
68 except ValueError:
69     print("Error: Please enter valid integers.")
70 finally:
71     print("Program execution completed.")
```

Run 5_file&exception handling

C:\Users\anrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"

Enter a list of integers separated by spaces: 12 -15 20

The average is 5.67.

Program execution completed.

Process finished with exit code 0

D:\DSML\Python\5_file&exception handling.py 70:1 CRLF UTF-8 4 spaces Python 3.13 (D42_Pythonproject)

23:06 18-01-2025

BP D42_Pythonproject Version control

Current File

File_handling.py exception_handling.py 5_file&exception handling.py

```
1 ##Exercise 1
2 try:
3     file_1 = input("Enter the file name: ")
4     with open(file_1, 'r') as file:
5         content = file.read()
6     print("File contents:")
7     print(content)
8 except FileNotFoundError:
9     print("The file does not exist.")
10 except Exception as e:
11     print(f"An error occurred: {e}")
12 ##Exercise 2
13 # try:
14 #     source_file = input("Enter the source file name: ")
15 #     destination_file = input("Enter the destination file name: ")
```

Run 5_file&exception handling

C:\Users\anrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"

Enter the file name: newfile.txt

File contents:

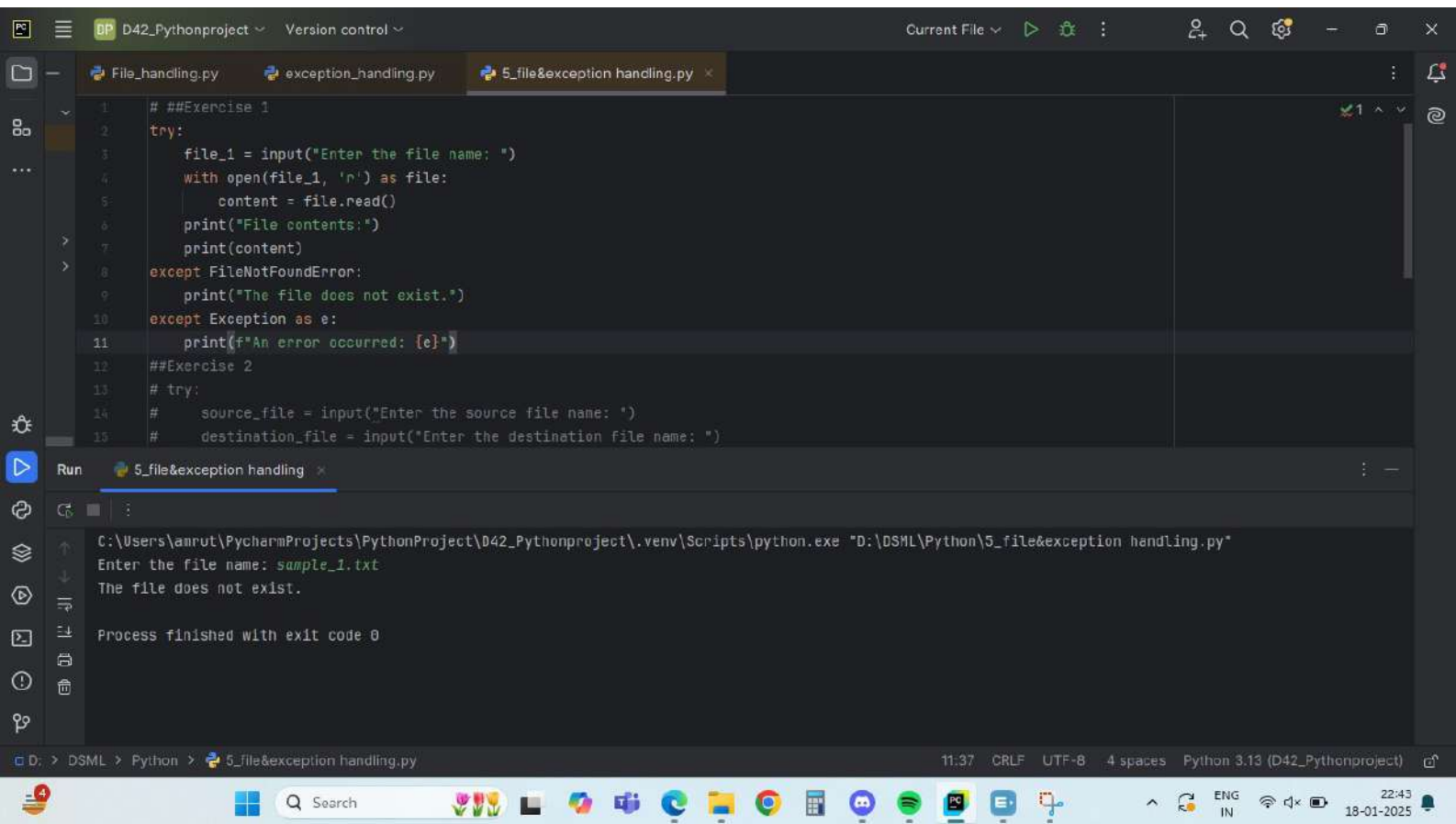
This is a New Line

This is a New Line

Process finished with exit code 0

D:\DSML\Python > 5_file&exception handling.py 6:28 CRLF UTF-8 4 spaces Python 3.13 (D42_Pythonproject)

22:39 18-01-2025



PyCharm IDE interface showing a Python project named "D42_Pythonproject". The editor displays a file named "5_file&exception handling.py" with the following code:

```
1  ##Exercise 1
2  try:
3      file_1 = input("Enter the file name: ")
4      with open(file_1, 'r') as file:
5          content = file.read()
6          print("File contents:")
7          print(content)
8  except FileNotFoundError:
9      print("The file does not exist.")
10 except Exception as e:
11     print(f"An error occurred: {e}")
12 ##Exercise 2
13 # try:
14 #     source_file = input("Enter the source file name: ")
15 #     destination_file = input("Enter the destination file name: ")
```

The Run console shows the execution of the script:

```
C:\Users\anrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"
Enter the file name: sample_1.txt
The file does not exist.
Process finished with exit code 0
```

The status bar at the bottom indicates the file path: "D:\DSML\Python\5_file&exception handling.py", encoding: "UTF-8", and Python version: "Python 3.13 (D42_Pythonproject)".

BP D42_Pythonproject Version control

Current File

File_handling.py exception_handling.py 5_file&exception handling.py

```
27 ##EXERCISE 3
28 try:
29     filename = input("Enter the file name: ")
30     with open(filename, 'r') as file:
31         content = file.read()
32         words = content.split()
33         print(f"The file contains {len(words)} words.")
34 except FileNotFoundError:
35     print("The file does not exist.")
36 except Exception as e:
37     print(f"An error occurred: {e}")
```

Run 5_file&exception handling

C:\Users\anrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"

Enter the file name: newfile.txt

The file contains 10 words.

Process finished with exit code 0

D:\DSML\Python\5_file&exception handling.py 37:37 CRLF UTF-8 4 spaces Python 3.13 (D42_Pythonproject)

22:56 18-01-2025

BP D42_Pythonproject Version control

Current File

File_handling.py exception_handling.py 5_file&exception handling.py

```
36 # except Exception as e:
37 #     print(f'An error occurred: {e}')
38
39 ##EXERCISE 4
40 try:
41     user_input = input("Enter a string: ")
42     number = int(user_input)
43     print(f"Converted integer: {number}")
44 except ValueError:
45     print("Invalid input. Please enter a valid integer.")
```

Run 5_file&exception handling

C:\Users\anrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"

Enter a string: 12345
Converted integer: 12345

Process finished with exit code 0

D:\DSML\Python\5_file&exception handling.py 45:58 CRLF UTF-8 4 spaces Python 3.13 (D42_Pythonproject)

22:56 18-01-2025

BP D42_Pythonproject Version control Current File

File_handling.py exception_handling.py 5_file&exception handling.py

```
36 # except Exception as e:
37 #     print(f'An error occurred: {e}')
38
39 ##EXERCISE 4
40 try:
41     user_input = input("Enter a string: ")
42     number = int(user_input)
43     print(f"Converted integer: {number}")
44 except ValueError:
45     print("Invalid input. Please enter a valid integer.")
```

Run 5_file&exception handling

C:\Users\anrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"

Enter a string: *hello*

Invalid input. Please enter a valid integer.

Process finished with `exit` code 0

D:\DSML\Python > 5_file&exception handling.py 45:58 CRLF UTF-8 4 spaces Python 3.13 (D42_Pythonproject)

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BP D42_Pythonproject Version control ~ Current File ~

File_handling.py exception_handling.py 5_file&exception handling.py x

```
64 # average = sum(numbers) / len(numbers)
65 # print(f"The average is {average:.2f}.")
66 # except ZeroDivisionError:
67 #     print("Error: Cannot compute the average of an empty list.")
68 # except ValueError:
69 #     print("Error: Please enter valid integers.")
70 # finally:
71 #     print("Program execution completed.")
72
73
74 ##EXERCISE 7
75 try:
76     filename = input("Enter the file name: ")
77     content = input("Enter the content to write to the file: ")
78     content = content + "\n"
79     with open(filename, "w") as file:
80         file.write(content)
81     print("Content written to 'newfile.txt' successfully.")
82 except Exception as e:
83     print(f"An error occurred: {e}")
84 else:
85     print("Welcome! No exceptions occurred.")
86 finally:
87     print("Program execution completed.")
```

Run 5_file&exception handling x

C:\Users\amrut\PycharmProjects\PythonProject\D42_Pythonproject\.venv\Scripts\python.exe "D:\DSML\Python\5_file&exception handling.py"

Enter the file name: newfile.txt

Enter the content to write to the file: hello, this is a python file

Content written to 'newfile.txt' successfully.

Welcome! No exceptions occurred.

Process finished with exit code 0

D:\DSML\Python > 5_file&exception handling.py 74:13 CRLF UTF-8 4 spaces Python 3.13 (D42_Pythonproject)

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