

PYTHON ASSIGNMENT BOOK

MAKE A MOVE TO PYTHON



ASSIGNMENTS

TASK FIVE: FILE HANDLING AND EXCEPTION HANDLING

Submitted By

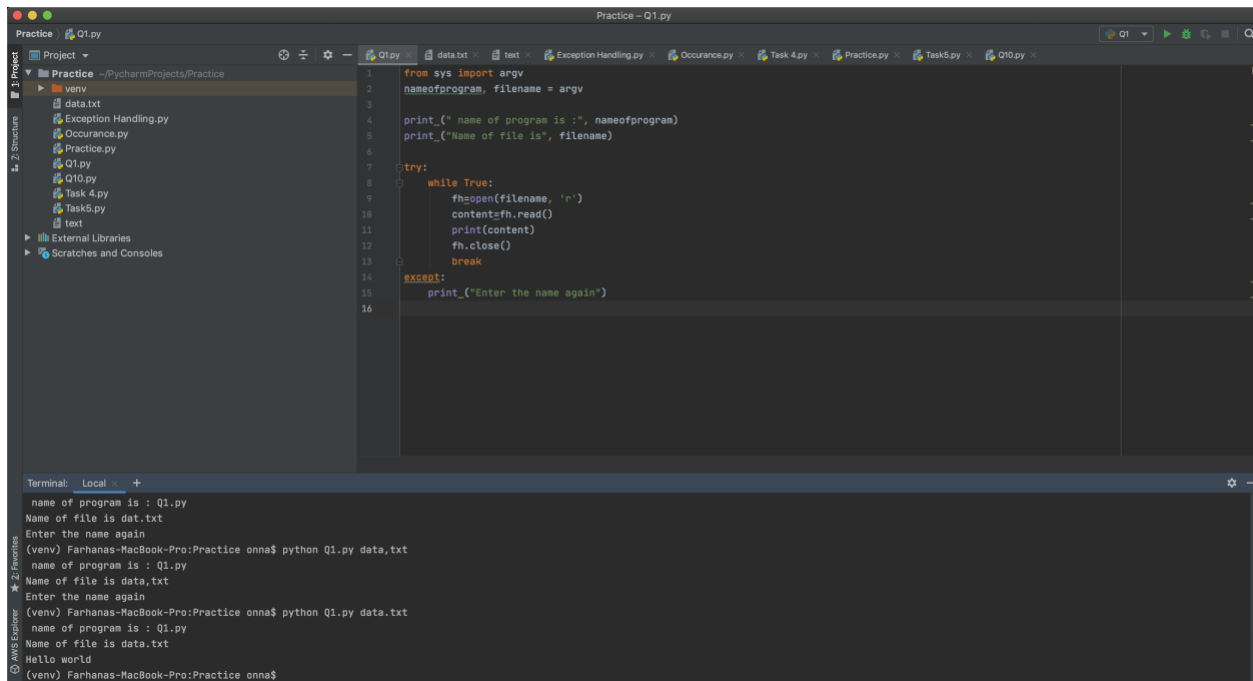
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1. Write a program in Python to allow the error of syntax to go in exception.
HINT: use `SyntaxError`.

```
try:
    date = eval('datetime(2020, 05b, 07)')
except SyntaxError:
    print('error')
```

2. Write a program in Python to allow user to open a file by using `argv` module. If the entered name is incorrect throw an exception and ask them to enter the name again. Make sure to use read only mode.



The screenshot shows the PyCharm IDE with a project named 'Practice'. The file explorer on the left shows a directory structure with files like 'data.txt', 'Exception Handling.py', 'Occurance.py', 'Practice.py', 'Q1.py', 'Q10.py', 'Task 4.py', 'Task 5.py', and 'test'. The main editor window displays the code for 'Q1.py':

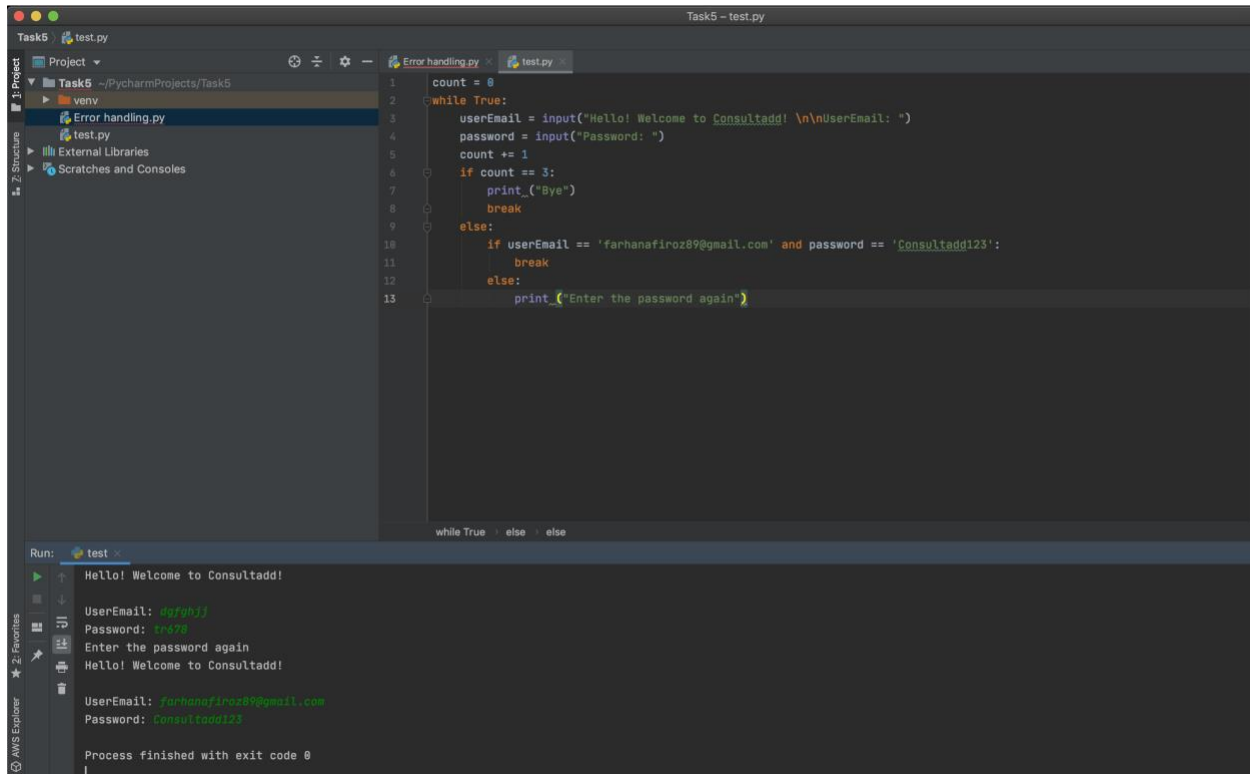
```
1 from sys import argv
2 nameofprogram, filename = argv
3
4 print('name of program is :', nameofprogram)
5 print('Name of file is', filename)
6
7 try:
8     while True:
9         fh=open(filename, 'r')
10        content=fh.read()
11        print(content)
12        fh.close()
13        break
14 except:
15     print("Enter the name again")
16
```

The terminal at the bottom shows the execution of the script. It prompts for the name of the program and the name of the file. The user enters 'Q1.py' and 'data.txt'. The script then enters a loop where it repeatedly asks for the name of the file until it is correctly entered. The output shows the content of 'data.txt' being printed.

3. Write a program to handle an error if the user entered the number more than four digits it should return "Please length is too short/long!!! Please provide only four digits"

```
num = input('Please enter your 4 digit number:')
while len(num) != 4 or (not num.isdigit()):
    print('Please length is too short/long!!! Please provide only four digits.')
    num = input('Please enter your 4 digit number:')
num = int(num)
print('The final number is: ', num)
```

4. Create a login page backend to ask user to enter the UserEmail and password. Make sure to ask Re-Type Password and if the password is incorrect give chance to enter it again but it should not be more than 3 times.



```
1 count = 0
2 while True:
3     userEmail = input("Hello! Welcome to Consultadd! \n\nUserEmail: ")
4     password = input("Password: ")
5     count += 1
6     if count == 3:
7         print("Bye")
8         break
9     else:
10        if userEmail == 'farhanafiroz89@gmail.com' and password == 'Consultadd123':
11            break
12        else:
13            print("Enter the password again")
```

Run: test

```
Hello! Welcome to Consultadd!
UserEmail: dafghj
Password: trs78
Enter the password again
Hello! Welcome to Consultadd!
UserEmail: farhanafiroz89@gmail.com
Password: Consultadd123
Process finished with exit code 0
```

5. <https://www.programiz.com/python-programming/exception-handling> Go through this link to understand Finally and Raise concept.

try...finally:

The try statement in Python can have an optional finally clause. This clause is executed no matter what, and is generally used to release external resources.

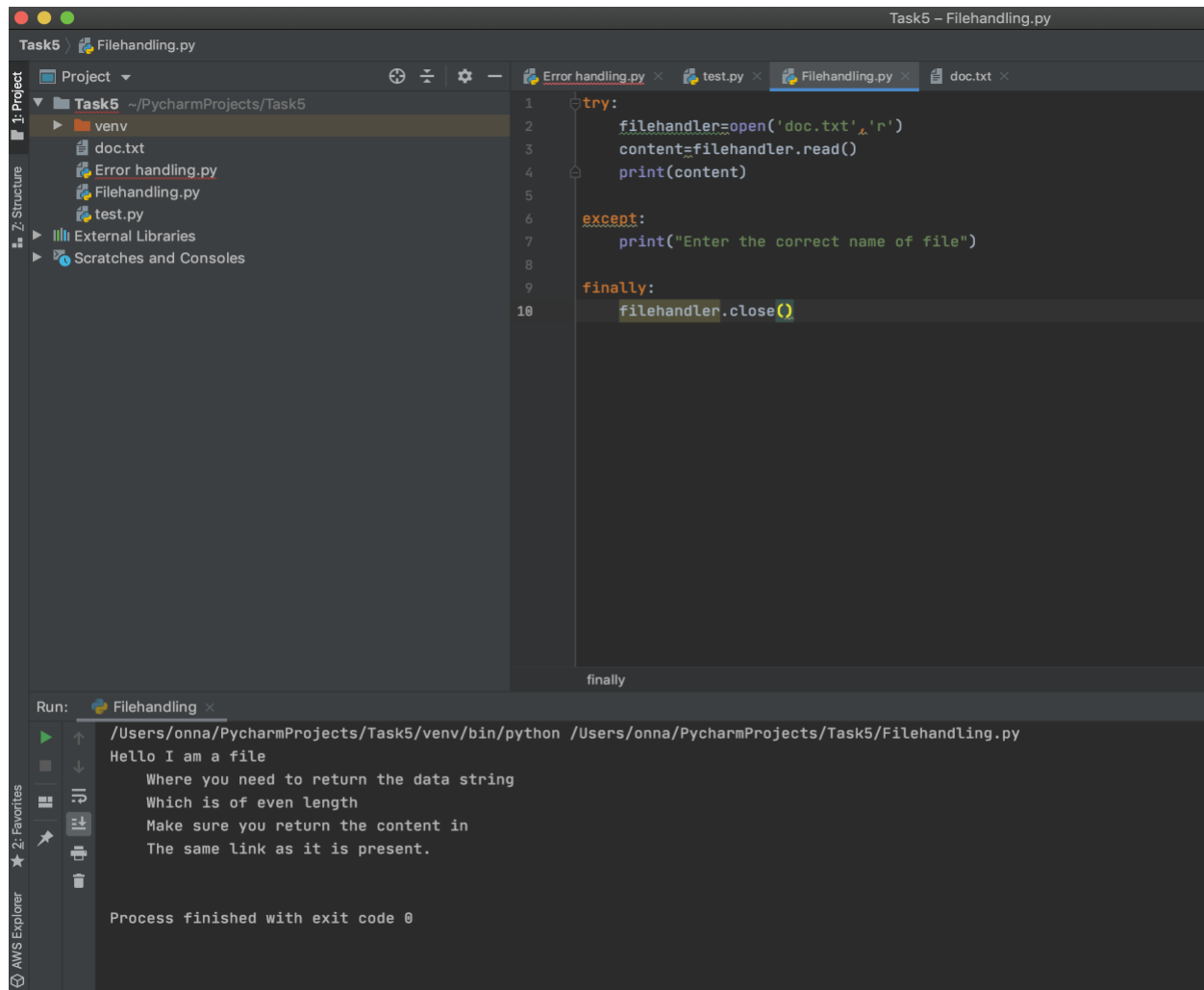
Raising Exceptions:

In Python programming, exceptions are raised when corresponding errors occur at runtime, but we can forcefully raise it using the raise keyword. We can also optionally pass values to the exception to clarify why that exception was raised.

6. Read any file using Python File handling concept and return only the even length string from the doc.txt file. Consider the content as:

```
Hello I am a file
Where you need to return the data string
Which is of even length
```

Make sure you return the content in
The same link as it is present.



The screenshot displays the PyCharm IDE interface for a project named 'Task5'. The left sidebar shows the project structure with files: 'doc.txt', 'Error handling.py', 'Filehandling.py', and 'test.py'. The main editor window shows the code in 'Filehandling.py'.

```
1 try:
2     filehandler=open('doc.txt','r')
3     content=filehandler.read()
4     print(content)
5
6 except:
7     print("Enter the correct name of file")
8
9 finally:
10    filehandler.close()
```

The bottom panel shows the 'Run' output for 'Filehandling.py'. The command executed is `/Users/onna/PycharmProjects/Task5/venv/bin/python /Users/onna/PycharmProjects/Task5/Filehandling.py`. The output is:

```
Hello I am a file
Where you need to return the data string
Which is of even length
Make sure you return the content in
The same link as it is present.

Process finished with exit code 0
```