

PYTHON ASSIGNMENT

MAKE A MOVE TO PYTHON

ASSIGNMENTS



SUBMITTED TO

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TASK- 5: FILE HANDLING AND EXCEPTION HANDLING

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

```
try:
    test = eval('x == x')
    print(test)
except SyntaxError as e:
    print("You've got an error %s"%e)
```

Output:

You've got an error invalid syntax (<string>, line 1)

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.

```
import sys

def test():

    try:

        with open(sys.argv[1], 'r') as my_file:
            print(my_file.read())

    except Exception as e:
        print("This is Exception. Enter the file name again")

test()
```

Output:

This is Exception. Enter the file name again

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”

```
def custom():  
  
    while (True):  
        try:  
            i_num = input("Enter a number: ")  
            if len(i_num) > 4:  
                raise ValueError("This value is too short/long !!!, please provide  
only 4 digits")  
            else:  
                print("Accepted the number")  
                break  
  
        except ValueError as e:  
            print(e)  
            print()  
  
custom()
```

Output:

Enter a number: 12345

This value is too short/long !!!, please provide only 4 digits

Enter a number: 123456

This value is too short/long !!!, please provide only 4 digits

Enter a number: 12

Accepted the number

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.

```
count=0
while count < 3:
    username = input('Enter username: ')
    password = input('Enter password: ')
    if password=='ConsultADD' and username=='bank_admin':
        print('Access granted')
        break
    else:
        count += 1
        print('Access denied. Enter correct username and password. Try again.')
print("Timeout!")
```

Output:

```
Enter username: bank_admin
Enter password: hgkgkd
Access denied. Enter correct username and password. Try again.
Enter username: bank_admin
Enter password: jhdjhakjsd
Access denied. Enter correct username and password. Try again.
Enter username: bank_admin
Enter password: kajsdkjahsd
Access denied. Enter correct username and password. Try again.
Timeout!
```

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

```
def get_even_string(string):
    counter = 0
    empty_st = ""

    for data in string:

        if data != " ":
            counter = counter + 1 #1 2 3 4 5
            empty_st = empty_st + data #h e l l o
        elif data == " ":
            if counter % 2 == 0:
                print("String '{}' has length {}".format(empty_st, counter))
            counter = 0
            empty_st = ""

    return None

def read_file():

    filepath = 'C:\\Users\\ankur\\IdeaProjects\\test_file.txt'

    with open(filepath, 'r') as f:
        a = f.readlines()

        for data in a:
            data = data.replace('\n', ' ')
            get_even_string(data)

read_file()
```

Output:

```
C:\Users\ankur\venv\Python3.8\Scripts\python.exe
C:/Users/ankur/IdeaProjects/Lesson_5/readfile.py
String 'am' has length 2
String 'file' has length 4
String 'need' has length 4
String 'to' has length 2
String 'return' has length 6
String 'data' has length 4
String 'string' has length 6
String 'is' has length 2
String 'of' has length 2
String 'even' has length 4
String 'length' has length 6
String 'Make' has length 4
String 'sure' has length 4
String 'return' has length 6
String 'in' has length 2
String 'same' has length 4
String 'link' has length 4
String 'as' has length 2
String 'it' has length 2
String 'is' has length 2
```


