

EXPLORER

AGILETRIBERS-INTERNSHIP

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 - zerodiverrr.py

data.txt

errorlog.txt

OUTLINE

TIMELINE

agevalid.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > agevalid.py > get_user_age
1 class AgeError(Exception):
2     def __init__(self,message="You must be at least 18 years old."):
3         super().__init__(self.message)
4
5 def get_user_age():
6     try:
7         age = int(input("Enter your age: "))
8         if age < 18:
9             raise AgeError("You must be at least 18 years old.")
10        print("Access granted.")
11    except AgeError as e:
12        print(e)
13    except ValueError:
14        print("Please enter a valid integer for age.")
15
16
17
18 get_user_age()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/agevalid.py"

Enter your age: 21

Access granted.

PS D:\AgileTribers-Internship>

pwsh

Python

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AligningTextinStringFormatting.py

Sprint2 > Python_Programming_Task_Practice - 3 > AligningTextinStringFormatting.py > ...

```
1 items = [  
2     ("Apples", 1.50),  
3     ("Bananas", 0.99),  
4     ("Cherries", 3.75),  
5     ("Dates", 2.50),  
6     ("Eggplant", 1.25)  
7 ]  
8  
9 itemwidth = 15  
10 pricewidth = 10  
11  
12 print("Item".ljust(itemwidth) + "Price".rjust(pricewidth))  
13 print("-" * (itemwidth + pricewidth))  
14  
15 for item, price in items:  
16     itemstr = item.ljust(itemwidth)  
17     pricestr = f"${price:.2f}".rjust(pricewidth)  
18     print(itemstr + pricestr)  
19
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/AligningTextinStringFormatting.py"

Item	Price
Apples	\$1.50
Bananas	\$0.99
Cherries	\$3.75
Dates	\$2.50
Eggplant	\$1.25

PS D:\AgileTribers-Internship>

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CombiningStringFormattingandExceptionHandling.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > CombiningStringFormattingandExceptionHandling.py > ...
1 def validate_password(password):
2     if len(password) < 8:
3         raise ValueError(f"Error: The password {password} is too short. It must be at least 8 characters long.")
4
5     hasletter=any(char.isalpha() for char in password)
6     hasdigit=any(char.isdigit() for char in password)
7
8     if not (hasdigit and hasletter):
9         raise ValueError("Password must contain both letters and numbers.")
10
11     return True
12
13
14 validate_password("abcd")
15 validate_password("abcdefgh")
16 validate_password("445453644")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/CombiningStringForma
ttingandExceptionHandling.py"
Traceback (most recent call last):
  File "d:\AgileTribers-Internship\Sprint2\Python_Programming_Task_Practice - 3\CombiningStringFormattingandExceptionHandling.py", line 14, in <mod
ule>
    validate_password("abcd")
    ~~~~~^~~~~~
  File "d:\AgileTribers-Internship\Sprint2\Python_Programming_Task_Practice - 3\CombiningStringFormattingandExceptionHandling.py", line 3, in valid
ate_password
    raise ValueError(f"Error: The password {password} is too short. It must be at least 8 characters long.")
ValueError: Error: The password abcd is too short. It must be at least 8 characters long.
PS D:\AgileTribers-Internship>
```

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CreatingandWritingtoaFile.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > CreatingandWritingtoaFile.py > ...  
1 def create_file():  
2     file=open("students.txt","w")  
3     file.write("Dhinesh Kumar \nAgastin \nAkshy")  
4  
5  
6 create_file()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/CreatingandWritingtoaFile.py"

PS D:\AgileTribers-Internship>

pwsh

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DynamicStringFormattingUsingDictionaries.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > DynamicStringFormattingUsingDictionaries.py > ...
1 person = {"name": "John", "age": 30, "city": "New York"}
2 print("{name} is {age} years old and lives in {city}".format(**person))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/DynamicStringFormatt
ingUsingDictionaries.py"
John is 30 years old and lives in New York
PS D:\AgileTribers-Internship>
```

main* 0 0 0

ndhineshkumaar (2 minutes ago) Ln 2, Col 72 Spaces: 4 UTF-8 CRLF {} Python 3.13.1 64-bit Go Live

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ExceptHandFileProc.py

Sprint2 > Python_Programming_Task_Practice - 3 > ExceptHandFileProc.py > read_file

```
1 def read_file(filename):
2     try:
3         file=open(filename,"r")
4         content=file.read()
5         print(content)
6     except FileNotFoundError:
7         print("The given file does not exist on the working directory")
8
9 read_file("files.txt")
```

PROBLEMS

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DEBUG CONSOLE

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```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/ExceptHandFileProc.py"
• The given file does not exist on the working directory
○ PS D:\AgileTribers-Internship>
```

pwsh

Python

main*

0 0

ndhineshkumaar (2 minutes ago)

Ln 3, Col 27

Spaces: 4

UTF-8

CRLF

{}

Python

3.13.1 64-bit

Go Live

File Edit Selection View Go Run Terminal Help AgileTribers-Internship

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ExcHanNesFunc.py

```
1 def outer_function():
2     def inner_function():
3         return 10 / 0
4
5     try:
6         result = inner_function()
7         print(f"Result: {result}")
8     except ZeroDivisionError as e:
9         print(f"Exception caught in outer_function: {e}")
10
11 outer_function()
12
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/ExcHanNesFunc.py"

Exception caught in outer_function: division by zero

PS D:\AgileTribers-Internship>

main* 0 0 0 Ln 12, Col 1 Spaces: 4 UTF-8 CRLF Python 3.13.1 64-bit Go Live

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FormatStringswithf-strings.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > FormatStringswithf-strings.py > ...
1 name=input("Enter the name: ")
2 age=int(input("Enter ur age: "))
3 print(f"Hello {name}, you are {age} years old!")
4
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/FormatStringswithf-strings.py"
Enter the name: DK
Enter ur age: 21
Hello DK, you are 21 years old!
PS D:\AgileTribers-Internship>
```

main* 0 0 0

Ln 4, Col 1 Spaces: 4 UTF-8 CRLF {} Python 3.13.1 64-bit Go Live

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FormattingDateandTime.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > FormattingDateandTime.py > ...
1 from datetime import datetime
2
3 def formatteddatetime():
4     now = datetime.now()
5     format = now.strftime("Today is %B %d, %Y, and the time is %I:%M %p")
6     print(format)
7
8 formatteddatetime()
9
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/FormattingDateandTime
e.py"
Today is May 07, 2025, and the time is 09:52 PM
PS D:\AgileTribers-Internship>
```

Ln 9, Col 1 Spaces: 4 UTF-8 CRLF {} Python 3.13.1 64-bit Go Live

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FormattingDecimalPlaces.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > FormattingDecimalPlaces.py > ...
1 def strformat():
2     num=float(input("Enter the decimal number: "))
3     print(f"The formatted float number is : {num:.2f}")
4
5
6 strformat()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/FormattingDecimalPla
ces.py"
Enter the decimal number: 21.654455
The formatted float number is : 21.65
PS D:\AgileTribers-Internship>
```

pwsh

Python

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FormattingLargeNumbers.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > FormattingLargeNumbers.py > ...  
1 def formatnumber(number):  
2     return "{:,}".format(number)  
3  
4  
5 print(formatnumber(1000000))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/FormattingLargeNumbers.py"
1,000,000
PS D:\AgileTribers-Internship>

main^ 0 0 0

ndhineshkumaar (4 minutes ago) Ln 5, Col 29 Spaces: 4 UTF-8 CRLF {} Python 3.13.1 64-bit Go Live

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main* 0 0

FormattingMulti-LineStrings.py

Sprint2 > Python_Programming_Task_Practice - 3 > FormattingMulti-LineStrings.py > ...

```
1 # Get user details
2 name = input("Enter your name: ")
3 age = input("Enter your age: ")
4 email = input("Enter your email: ")
5
6 print("""
7 =====
8 |      User Information
9 |=====
10 Name : {0}
11 Age  : {1}
12 Email: {2}
13 =====
14 """.format(name, age, email))
15
```

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PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/FormattingMulti-LineStrings.py"

Enter your name: DK

Enter your age: 21

Enter your email: ndhineshkumaar@gmail.com

=====

User Information

=====

Name : DK

Age : 21

Email: ndhineshkumaar@gmail.com

=====

PS D:\AgileTribers-Internship>

Ln 15, Col 1 Spaces: 6 UTF-8 CRLF {} Python 3.13.1 64-bit Go Live

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logexchand.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > logexchand.py > ...
1 import logging
2
3 logging.basicConfig(filename="errorlog.txt",level=logging.ERROR, format='%(asctime)s - %(levelname)s - %(message)s')
4
5 def main():
6     try:
7         num = int(input("Enter the number: "))
8         str_val = input("Enter the str: ")
9         strtonum = int(str_val)
10        div = num / num
11        print(f"The converted int: {strtonum} \nThe ans after dividing is {div}")
12    except ZeroDivisionError as e:
13        logging.error("Division by zero is not allowed.", exc_info=True)
14    except ValueError as e:
15        logging.error("Converting given string to int is not possible", exc_info=True)
16
17 main()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/logexchand.py"

Enter the number: 0

Enter the str: gh

PS D:\AgileTribers-Internship>

pwsh

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errorlog.txt M

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multexcep.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > multexcep.py > ...
1 def main():
2     try:
3         num=int(input("Enter the number: "))
4         str=input("Enter the str: ")
5         strtonum=int(str)
6         div=num/num
7         print(f"The converted int: {strtonum} \nThe ans after dividing is {div}")
8     except ZeroDivisionError:
9         print("Division by zero is not allowed.")
10    except ValueError:
11        print("Converting given string to int is not possible")
12
13    main()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\Agiletribers-Internship> & D:/Python/python.exe "d:/Agiletribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/multexcep.py"

Enter the number: 0

Enter the str: gh

Converting given string to int is not possible

PS D:\Agiletribers-Internship>

pwsh

Python

EXPLORER

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 - zerodiverrr.py

data.txt

errorlog.txt

students.txt

OUTLINE

TIMELINE

nesttryexcep.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > nesttryexcep.py > nesttry
1 def nesttry():
2     try:
3         num1=int(input("Enter the first number: "))
4         num2=int(input("Enter the second number: "))
5         result=num1/num2
6         print(result)
7     except ZeroDivisionError:
8         print("Division using zero is not possible")
9     except ValueError:
10        print("Check the value entered")
11    else:
12        print("Operation successful")
13
14 nesttry()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/nesttryexcep.py"
Enter the first number: 25
Enter the second number: 30
0.8333333333333334
Operation successful
PS D:\AgileTribers-Internship>
```

main* 0 0

ndhineshkumar (6 minutes ago) Ln 10, Col 41 Spaces: 4 UTF-8 CRLF {} Python 3.13.1 64-bit Go Live

EXPLORER

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 - zerodiverrr.py

data.txt

errorlog.txt

students.txt

OUTLINE

TIMELINE

raiseexcepman.py

Sprint2 > Python_Programming_Task_Practice - 3 > raiseexcepman.py > validate_password

```
1 def validate_password(password):
2     if len(password) < 8:
3         raise ValueError("Password must be at least 8 characters long.")
4
5     hasletter=any(char.isalpha() for char in password)
6     hasdigit=any(char.isdigit() for char in password)
7
8     if not (hasdigit and hasletter):
9         raise ValueError("Password must contain both letters and numbers.")
10
11     return True
12
13
14 validate_password("abcdefgh54")
15 validate_password("abcdefgh")
16 validate_password("445453644")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/raiseexcepman.py"

Traceback (most recent call last):

File "d:\AgileTribers-Internship\Sprint2\Python_Programming_Task_Practice - 3\raiseexcepman.py", line 15, in <module>

validate_password("abcdefgh")

File "d:\AgileTribers-Internship\Sprint2\Python_Programming_Task_Practice - 3\raiseexcepman.py", line 9, in validate_password

raise ValueError("Password must contain both letters and numbers.")

ValueError: Password must contain both letters and numbers.

PS D:\AgileTribers-Internship>

main* 0 0 0

ndhineshkumar (6 minutes ago) Ln 6, Col 54 Spaces: 4 UTF-8 CRLF {} Python 3.13.1 64-bit Go Live

EXPLORER

AGILETRIBERS-INTERNSHIP

Sprint1

Sprint2

Python_Programming_Task_Practice - 1

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Python_Programming_Task_Practice - 3

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raiseexcepman.py

ReadingandAppendingtoaFile.py

tryexcfm.py

UsElswithTry-Exc.py

zerodiverr.py

data.txt

errorlog.txt

students.txt

OUTLINE

TIMELINE

ReadingandAppendingtoaFile.py

Sprint2 > Python_Programming_Task_Practice - 3 > ReadingandAppendingtoaFile.py > ...

```
1 def read_and_append(filename, text):
2     file=open(filename,"r+")
3     contents=file.read()
4     print(contents)
5     file.write(f"\n {text}")
6     file.seek(0)
7     ucontents=file.read()
8     print(ucontents)
9
10 filename="data.txt"
11 text="How are you ?"
12 read_and_append(filename, text)
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/ReadingandAppendingtoaFile.py"

Hello Dhinesh

Hello Dhinesh

How are you ?

PS D:\AgileTribers-Internship>

pwsh

Python

main*

0 0 0

ndhineshkumar (6 minutes ago)

Ln 11, Col 21

Spaces: 4

UTF-8

CRLF

{ } Python

3.13.1 64-bit

Go Live

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data.txt M

errorlog.txt M

students.txt U

OUTLINE

TIMELINE

tryexcfin.py X

Sprint2 > Python_Programming_Task_Practice - 3 > tryexcfin.py > readfile

```
1 def readfile():
2     file=None
3     try:
4         file=open("Sprint2\Python_Programming_Task_Practice - 3\data.txt","r")
5         content=file.read()
6         print(content)
7     except FileNotFoundError:
8         print("Error: The file 'data.txt' was not found.")
9     except Exception as e:
10        print(f"An error occurred while reading the file: {e}")
11    finally:
12        if file:
13            file.close()
14        print("File has been closed.")
15
16 readfile()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/tryexcfin.py"

d:\AgileTribers-Internship\Sprint2\Python_Programming_Task_Practice - 3\tryexcfin.py:4: SyntaxWarning: invalid escape sequence '\P'

file=open("Sprint2\Python_Programming_Task_Practice - 3\data.txt","r")

Hello Dhinesh

File has been closed.

PS D:\AgileTribers-Internship>

pwsh

Python

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data.txt M

errorlog.txt M

students.txt U

OUTLINE

TIMELINE

UsElswithTry-Exc.py X

Sprint2 > Python_Programming_Task_Practice - 3 > UsElswithTry-Exc.py > ...

```
1 try:
2     num=int(input("Enter the number "))
3 except ValueError:
4     print("Invalid Input")
5 else:
6     print(f"Conversion Success. \n The number is {num}")
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/UsElswithTry-Exc.py"

Enter the number jk

Invalid Input

PS D:\AgileTribers-Internship>

main* 0 0 0

Ln 7, Col 1 Spaces: 4 UTF-8 CRLF {} Python 3.13.1 64-bit Go Live

EXPLORER

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data.txt M

errorlog.txt M

students.txt U

OUTLINE

TIMELINE

zerodiverrr.py

```
Sprint2 > Python_Programming_Task_Practice - 3 > zerodiverrr.py > safe_divide
1 def safe_divide(a, b):
2     try:
3         result=a/b
4         return result
5     except ZeroDivisionError:
6         print("Division by zero is not allowed.")
7
8 print(safe_divide(5,0))
9 print(safe_divide(5,2))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 3/zerodiverrr.py"

Division by zero is not allowed.

None

2.5

PS D:\AgileTribers-Internship>

pwsh

Python