Out put

File Handling and Exception Handling

(Python Assignment)

1.

```python
# Exercise 1: Write a Python program to read a file and
display its contents
file_1 = open("C:\\Users\\matra\\Desktop\\File
handling\\abhi.txt","r")
print(file_1.read())
```

Output:

```
Hello Abhiram,
Welcome to the world of Programming.

Process finished with exit code 0
```

2.

```python
# Exercise 2: (score : 1) Write a Python program to copy the
contents of one file to another file.
from pathlib import Path

source_file = Path("C:\\Users\\matra\\Desktop\\File
handling\\abhi.txt")
destination_file = Path("C:\\Users\\matra\\Desktop\\File
handling\\Destination.txt")

# Read contents from source and write to destination
destination_file.write_text(source_file.read_text())
source_file = open("C:\\Users\\matra\\Desktop\\File
handling\\abhi.txt","r")
destination_file = open("C:\\Users\\matra\\Desktop\\File
handling\\Destination.txt","r")
print(source_file.read())
print(destination_file.read())
```

Output:

```
C:\Users\matra\PycharmProjects\Python_D36_ENTRI\.venv\Scripts\pyt
Hello Abhiram,
Welcome to the world of Programming.
Hello Abhiram,
Welcome to the world of Programming.

Process finished with exit code 0
```

3.

```python
# 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.
with open("C:\\Users\\matra\\Desktop\\File
handling\\abhi.txt","r")  as abhi:
    A=abhi.read()
    print(A)
    print(len(A.split()))
```

Output:

```
C:\Users\matra\PycharmProjects\Python_D36_ENTRI\.venv\Scripts\python.exe "C:
Hello Abhiram,
Welcome to the world of Programming.
8

Process finished with exit code 0
```

4.

```python
# Exercise 4: (score : 1)
# Write a Python program that prompts the user to input a
string and converts it to an integer.
# Use try-except blocks to handle any exceptions that might
occur.
try:
    num=int(input("Enter an integer: "))
    print(f"The number is {num}")
except ValueError:
    print("Invalid input. Please enter a valid integer.")
```

Output:

5.

```python
# 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 integers in the list are negative.

List=[]
for i in range(11):
    try:
        L=int(input("Enter positive integers to the list : "))
        if L<0:
            raise ValueError
        List.append(L)

    except ValueError:
        print("Enter valid positive integers!")
print(f"The list is : {List}")
```
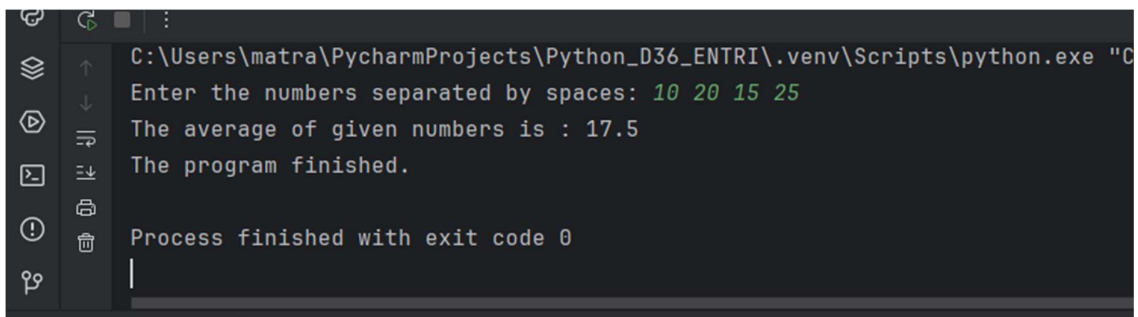
Output:

6.

```python
# Exercise 6: (score : 2) Write a Python program that prompts
the user to input a list of integers
# and computes the average of those integers.Use try-except
blocks to handle any exceptions that
# might occur.use the finally close to print a message
indicating that the program has finished
# running.
numbers=[]
try:
    users input=input("Enter the numbers separated by spaces:
")
    numbers=[int(x) for x in users_input.split()] # Convert
the input string to a list of integers
    if len(numbers)==0:
        raise ValueError
    avg=sum(numbers)/len(numbers)
    print(f"The average of given numbers is : {avg}")
except ValueError:
    print("Error : The list cannot be empty.")
except Exception as e:
    print("Error ",e)
finally:print("The program finished.")
```

Output:

```
C:\Users\matra\PycharmProjects\Python_D36_ENTRI\.venv\Scripts\python.exe "C
Enter the numbers separated by spaces: 10 20 15 25
The average of given numbers is : 17.5
The program finished.


Process finished with exit code 0
```

```
C:\Users\matra\PycharmProjects\Python_D36_ENTRI\.venv\Scripts\python.exe "C:\Users\matra\Pyc
Enter the numbers separated by spaces:
Error : The list cannot be empty.
The program finished.


Process finished with exit code 0
```
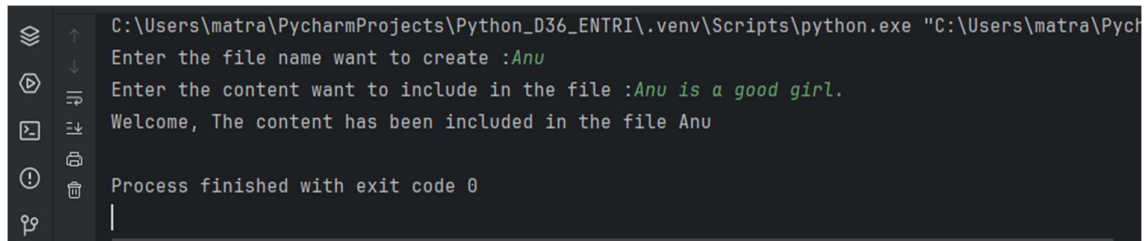
7.

```python
# Exercise 7 : (score : 2) Write a Python program that prompts
the user to input a filename and
# writes a string to that file.
```

```python
# Use try-except blocks to handle any exceptions that might occur and print a welcome message if
# there is no exception occurred.

try:
    filename=input("Enter the file name want to create :")
    content=input("Enter the content want to include in the file :")
    with open("filename","w") as file:#opening the file to write
        file.write(content)
    print(f"Welcome, The content has been included in the file {filename} ")
except Exception as e:
    print("There is an error : ",e)
```

Output:

```
C:\Users\matra\PycharmProjects\Python_D36_ENTRI\.venv\Scripts\python.exe "C:\Users\matra\Pych
Enter the file name want to create :Anu
Enter the content want to include in the file :Anu is a good girl.
Welcome, The content has been included in the file Anu

Process finished with exit code 0
```