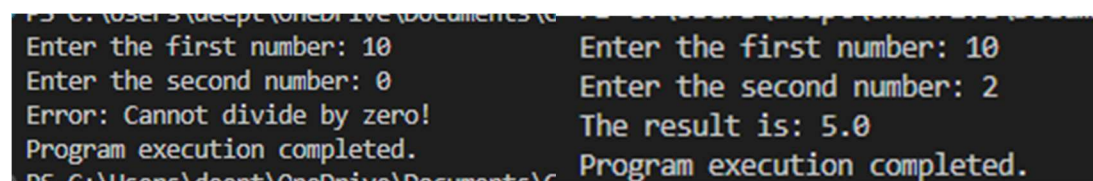


Code-

#exp-7

```
def main():  
    try:  
        num1 = int(input("Enter the first number: "))  
        num2 = int(input("Enter the second number: "))  
        result = num1 / num2  
        print(f"The result is: {result}")  
    except ZeroDivisionError:  
        print("Error: Cannot divide by zero!")  
    except ValueError:  
        print("Error: Invalid input! Please enter numbers only.")  
    finally:  
        print("Program execution completed.")  
  
if __name__ == "__main__":  
    main()
```

OUTPUT-



```
PS C:\Users\deep\OneDrive\Documents> python exp7.py  
Enter the first number: 10  
Enter the second number: 0  
Error: Cannot divide by zero!  
Program execution completed.  
PS C:\Users\deep\OneDrive\Documents> python exp7.py  
Enter the first number: 10  
Enter the second number: 2  
The result is: 5.0  
Program execution completed.
```

CODE-

#exp-8

```
def read_and_write_file(input_file, output_file):  
    try:  
        with open(input_file, 'r') as infile:  
            content = infile.read()  
        with open(output_file, 'w') as outfile:  
            outfile.write(content)  
        print(f"Content from {input_file} has been written to {output_file}")  
    except FileNotFoundError:  
        print(f"Error: {input_file} not found!")  
    except Exception as e:  
        print(f"An error occurred: {e}")
```

```
def append_and_display_file(file_name, data_to_append):  
    try:  
        with open(file_name, 'a') as file:  
            file.write(data_to_append + '\n')  
        with open(file_name, 'r') as file:  
            content = file.read()  
            print(f"Updated content of {file_name}:\n{content}")  
    except FileNotFoundError:  
        print(f"Error: {file_name} not found!")  
    except Exception as e:  
        print(f"An error occurred: {e}")
```

```
def count_file_content(file_name):  
    try:  
        with open(file_name, 'r') as file:  
            lines = file.readlines()
```

```

    num_lines = len(lines)
    num_words = sum(len(line.split()) for line in lines)
    num_chars = sum(len(line) for line in lines)
    print(f"Lines: {num_lines}, Words: {num_words}, Characters: {num_chars}")
except FileNotFoundError:
    print(f"Error: {file_name} not found!")
except Exception as e:
    print(f"An error occurred: {e}")

def main():
    input_file = 'input.txt'
    output_file = 'output.txt'
    data_to_append = 'Appended content'
    read_and_write_file(input_file, output_file)
    append_and_display_file(output_file, data_to_append)
    count_file_content(output_file)

if __name__ == "__main__":
    main()

```

OUTPUT-

```

Content from input.txt has been written to output.txt
Updated content of output.txt:
hi worldAppended content

Lines: 1, Words: 3, Characters: 25

```

Code-

#exp-9

import os

def count_file_content(file_name):

try:

with open(file_name, 'r') as file:

lines = file.readlines()

num_lines = len(lines)

num_words = sum(len(line.split()) for line in lines)

num_chars = sum(len(line) for line in lines)

print(f"Lines: {num_lines}, Words: {num_words}, Characters: {num_chars}")

except FileNotFoundError:

print(f"Error: {file_name} not found!")

except Exception as e:

print(f"An error occurred: {e}")

def display_files_in_directory():

try:

files = os.listdir('.')

print("Files in the current directory:")

for file in files:

print(file)

except Exception as e:

print(f"An error occurred: {e}")

def main():

file_name = 'output.txt'

count_file_content(file_name)

display_files_in_directory()

```
if __name__ == "__main__":  
    main()
```

OUTPUT-

```
Lines: 1, Words: 3, Characters: 25  
Files in the current directory:  
EXP_1.odt  
exp_1.py  
exp_2.py  
exp_3.py  
exp_4.py  
exp_5.py  
exp_6.py  
exp_7.py  
exp_8.py  
exp_9.py  
input.txt  
manual.txt  
output.txt  
python_exp-1,6.pdf
```

Code-

#exp-10

```
import sqlite3
```

```
# Creating a connection object
```

```
conn = sqlite3.connect('student_database.db')
```

```
# Creating a cursor object using the connection
```

```
cursor = conn.cursor()
```

```
# Creating a table in the database
```

```
def create_table():
```

```
    cursor.execute("""CREATE TABLE IF NOT EXISTS students (
                        id INTEGER PRIMARY KEY AUTOINCREMENT,
                        name TEXT NOT NULL,
                        age INTEGER NOT NULL,
                        grade TEXT NOT NULL)""")
```

```
    print("Table created successfully!")
```

```
# Inserting values into the table
```

```
def insert_values(name, age, grade):
```

```
    cursor.execute("""INSERT INTO students (name, age, grade)
                        VALUES (?, ?, ?)""", (name, age, grade))
```

```
    conn.commit()
```

```
    print("Values inserted successfully!")
```

```
# Displaying values from the table
```

```
def display_values():
```

```
    cursor.execute('SELECT * FROM students')
```

```
    rows = cursor.fetchall()
```

```
    for row in rows:
```

```

        print(row)

# Updating values in the table
def update_values(student_id, new_grade):
    cursor.execute("UPDATE students SET grade = ? WHERE id = ?", (new_grade, student_id))
    conn.commit()
    print("Values updated successfully!")

# Main function
def main():
    create_table()
    insert_values('John Doe', 20, 'A')
    insert_values('Jane Smith', 22, 'B')
    display_values()
    update_values(1, 'A+')
    display_values()

# Calling the main function
if __name__ == "__main__":
    main()
conn.close()
print("Connection closed successfully!")

```

OUTPUT-

```

Table created successfully!
Values inserted successfully!
Values inserted successfully!
(1, 'John Doe', 20, 'A')
(2, 'Jane Smith', 22, 'B')
Values updated successfully!
(1, 'John Doe', 20, 'A+')
(2, 'Jane Smith', 22, 'B')
Connection closed successfully!

```