**Task 9a:**

**Program**

try:

num1 = int(input("Enter numerator: "))

num2 = int(input("Enter denominator: "))

result = num1 / num2

print("Result:", result)

except ZeroDivisionError:

print("Error: Division by zero is not allowed!")

**Sample I/O**

**Enter numerator: 10**

**Enter denominator: 2**

**Result: 5.0**

**Enter numerator: 10**

**Enter denominator: 0**

**Error: Division by zero is not allowed!P**

**Task 9b:**

**Program**

try:

num = int(input("Enter a number: "))

print("Square:", num \*\* 2)

except ValueError:

print("Error: Invalid input, please enter a number!")

except Exception as e:

print("Unexpected error:", e)

Sample I/O

Enter a number: 6

Square: 36

Enter a number: hello

Error: Invalid input, please enter a number!

**Task 9c:**

**Program**

try:

file = open("sample.txt", "r")

content = file.read()

print(content)

except FileNotFoundError:

print("Error: File not found!")

finally:

print("Execution completed (finally block runs always).")

**Sample I/O**

(sample.txt contains: "Hello Python")

Hello Python

Execution completed (finally block runs always).

Error: File not found!

Execution completed (finally block runs always).

**Task9d:**

**Program**

class NegativeNumberError(Exception):

pass

try:

num = int(input("Enter a positive number: "))

if num < 0:

raise NegativeNumberError("Negative number entered!")

print("You entered:", num)

except NegativeNumberError as e:

print("Error:", e)

**Sample I/O**

Enter a positive number: 15

You entered: 15

Enter a positive number: -8

Error: Negative number entered!