Lab Exercise 5 Q1. Write a program to handle the exception of ZeroDivisionError.

In [ ]:
```
def divide_numbers(a, b):
    try:
        result = a / b
        return result
    except ZeroDivisionError:
        raise ZeroDivisionError("Error: Division by zero is not allowed.")

try:
    numerator = float(input("Enter the numerator: "))
    denominator = float(input("Enter the denominator: "))

    result = divide_numbers(numerator, denominator)
    print(f"Result of division: {result}")

except ZeroDivisionError as e:
    print(e)

finally:
    print("Program execution completed.")

print("Program finished.")
```

```
Error: Division by zero is not allowed.
Program execution completed.
Program finished.
```

Q2. Write a program to handle the exception of IndexError.

In [ ]:
```
def access_list_element(lst, index):
    try:
        value = lst[index]
        return value
    except IndexError:
        raise IndexError("Error: Index out of range.")

try:
    my_list = [10, 20, 30, 40, 50]
    index_to_access = int(input("Enter an index to access from the list: "))

    accessed_value = access_list_element(my_list, index_to_access)
    print(f"Value at index {index_to_access}: {accessed_value}")

except IndexError as e:
    print(e)

finally:
    print("Program execution completed.")

print("Program finished.")
```

```
Error: Index out of range.
Program execution completed.
Program finished.
```