

Lab Exercise 5

1. Write a program to handle the exception of ZeroDivisionError.

```
In [ ]: def main():
    try:
        num1 = float(input("Enter a number: "))
        num2 = float(input("Enter another number: "))
        if num2 == 0:
            raise ZeroDivisionError("Cannot be divided by zero")
        result = num1 / num2
        print("Result:", result)
    except ZeroDivisionError as error:
        print("Error:", error)
    except ValueError:
        print("Invalid input. Please enter valid numbers.")
    except Exception as e:
        print("An error occurred:", e)

main()
```

Error: Cannot be divided by zero

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

```
In [ ]: def execute():
    try:
        lst = [1, 2, 3]
        idx = int(input("Enter an index: "))

        val = lst[idx]
        print("Value at index", idx, "is:", val)

    except IndexError:
        print("Index out of range.")
    except ValueError:
        print("Invalid input. Please enter a valid index.")
    finally:
        print("Execution completed.")

execute()
```

Value at index 2 is: 3
Execution completed.