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Subject: Python Lab

Register No: 23MCA1030

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Exception Handling

```
try:
    result = 10 / 0
except ZeroDivisionError:
    print("Error: Division by zero!")

def divide(x, y):
    if y == 0:
        raise ZeroDivisionError("Cannot divide by zero")
    return x / y

try:
    result = divide(10, 0)
except ZeroDivisionError as e:
    print(f"Custom Error 1: {e}")

class CustomError(Exception):
    pass

def divide(x, y):
    if y == 0:
        raise CustomError("Cannot divide by zero")
    return x / y

try:
    result = divide(10, 0)
except CustomError as e:
    print(f"Custom Error 2: {e}")

try:
    file = open("mytext.txt", "w")
    file.write("This is some sample data.")
except Exception as e:
    print(f"An error occurred: {e}")
finally:
    if 'file' in locals():
        file.close()
```

Output:

```
D:\MCA\2. Data Structures and Algorithms + LAB>python -u "d:\MCA\2. Data Structures and Algorithms + LAB\DSA\C\Code\exceptionh
andling.py"
Error: Division by zero!
Custom Error 1: Cannot divide by zero
Custom Error 2: Cannot divide by zero

D:\MCA\2. Data Structures and Algorithms + LAB>
```

END