

Q1. Program of Exception handling

```
x = input("Enter x: ")
```

```
y = input("Enter y: ")
```

```
try:
```

```
    z = x + y
```

```
    print("Result of addition:", z)
```

```
except TypeError:
```

```
    print("Error: cannot add an int and a str")
```

```
finally:
```

```
    print("End of program.")
```

```
===== RESTART: C
Enter x: 6
Enter y: 8
Result of addition: 68
End of program.
|
```

Q2. Program to check whether number is divisible by zero or not

```
x=input("enter no 1 : ")
```

```
y=input("enter no 2 : ")
```

```
try:
```

```
    print(x/y)
```

```
except:
```

```
    print("error 1")
```

```
===== RESTART: C:/PYTHON/try.py
enter no 1 : 5
enter no 2 : 0
error 1
|
```

Q3. Use concept of Finally

```
x=input("enter no 1 : ")
```

```
y=input("enter no 2 : ")
```

```
try:
```

```
    print(x/y)
```

```
except SystemError :
```

```
    print("error 1")
```

```
except:
```

```
    print("no")
```

```
finally:
```

```
    print("Succesful")
```

Q4. Perform Built in Exception any (5 Program)

ZeroDivisionError

```
try:
```

```
    result = 10 / 0
```

```
    print("Result:", result)
```

```
except ZeroDivisionError:
```

```
    print("Error: Division by zero!")
```

```
=====
Error: Division by zero!
```

ValueError

try:

```
num = int(input("Enter an integer: "))  
print("Entered number:", num)
```

except ValueError:

```
print("Error: Please enter a valid integer.")
```

```
===== RESTART: C:/  
Enter an integer: k  
Error: Please enter a valid integer.  
|
```

TypeError

try:

```
result = "hello" + 5
```

except TypeError:

```
print("Error: Unsupported operand type(s) for +.")
```

```
| Error: Unsupported operand type(s) for +.
```

FileNotFoundError

try:

```
with open("a.txt", "r") as file:  
    content = file.read()
```

except FileNotFoundError:

```
print("Error: File not found.")
```

```
=====
Error: File not found.
|
```

NameError

try:

```
    print(undefined_variable)
```

except NameError:

```
    print("Error: Variable is not defined.")
```

```
===== RESTA
Error: Variable is not defined.
|
```

Q5. Use Concept of Try, except and finally

try:

```
    x = int(input("Enter x: "))
```

```
    y = int(input("Enter y: "))
```

```
    z = x + y
```

```
    print("Result of addition:", z)
```

except ValueError:

```
    print("Error: Please enter valid integers.")
```

except TypeError:

```
print("Error: Cannot add an int and a str.")
```

finally:

```
print("End of program.")
```

```
=====
Enter x: 8
Enter y: 9
Result of addition: 17
End of program.
```