



```
# Exception Handling
try:
    num = (1/0)
    fhandle = open("exception_handling.py")
    print ("Number 1 ->", num1)
except ZeroDivisionError as ze:
    print ("Zero Division Error Occurred ->", ze)
except FileNotFoundError as fe:
    print ("File Not Found Error Occurred ->", fe)
except Exception as e:
    print ("Error Occurred ->", e)
else:
    print ("All the statements has been executed successfully")
finally:
    print ("This will always be executed")

print ("After Division by Zero")

print ("-----")

try:
    num = (1/1)
    fhandle = open("exception_handling.py")
except (ZeroDivisionError, FileNotFoundError) as e:
    print ("Common Error Occurred ->", e)
except Exception as e:
    print ("Error Occurred ->", e)
else:
    print ("All the statements has been executed successfully")
finally:
    print ("This will always be executed")

print ("-----")

# User Defined Exceptions
class invalidEmailId(Exception):
    err_msg = "User has entered the Wrong Mail Id ->"

def chkMailId():
    global user_mail_id
    user_mail_id = input("Enter Mail Id -> ")
    if (user_mail_id.count('@') == 1):
        print ("Valid Mail Id ->", user_mail_id)
    else:
        raise invalidEmailId

# Check the validity of the mail id
try:
    user_mail_id = ""
```



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chkMailId()
except inValidEmailId as ivm:
    print (ivm.err_msg, user_mail_id)

print ("-----")

# User Defined Exceptions
class inValid(Exception):
    err_msg = "User has entered the Wrong Mail Id ->"
    mail_id = ""

    def setMailId(inp_mail_id):
        print ("I am in Set Mail Id")
        inValid.mail_id = inp_mail_id

def chkMailId():
    user_mail_id = input("Enter Mail Id -> ")
    if (user_mail_id.count('@') == 1):
        print ("Valid Mail Id ->", user_mail_id)
    else:
        inValid.setMailId (user_mail_id)
        print ("Mail Id from Class ->", inValid.mail_id)
        raise inValid

# Check the validity of the mail id
try:
    user_mail_id = ""
    chkMailId()
except inValid as ivm:
    print (ivm.err_msg, ivm.mail_id)

print ("-----")
```