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In [1]: #Customized exception handling
print("stmt-1")
try:
    print(10/0)
except ZeroDivisionError:
    print(10/2)
print("stmt-3")

stmt-1
5.0
stmt-3
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In [4]: #control flow in try-except block
try:
    x=int(input("Enter first number:"))
    y=int(input("Enter second number:"))
    print(x/y)
except ZeroDivisionError:
    print("Cannot divide by zero")
except ValueError:
    print("please provide int value only")

Enter first number:10
Enter second number:int
please provide int value only
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In [5]: #Single except block that can handle multiple exception
try:
    x=int(input("Enter first no:"))
    y=int(input("Enter second no:"))
    print(x/y)
except (ZeroDivisionError,ValueError) as msg:
    print("plz provide valid no only and problem is:",msg)

Enter first no:10
Enter second no:0
plz provide valid no only and problem is: division by zero
```

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In [6]: #Default except block
#except:
try:
    x=int(input("Enter first no:"))
    y=int(input("Enter second no:"))
    print(x/y)
except ZeroDivisionError:
    print("ZeroDivisionError: cannot divide with zero")
except:
    print("DefaultExcept:plz provide valid input")

Enter first no:10
Enter second no:dkddk
DefaultExcept:plz provide valid input
```

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In [ ]: #finally block
#to maintain cleanup code
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In [ ]: #Types of exception
#1. pre defined exception/inbuilt exception
#2. user defined exception/customized Exception
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In [8]: #How to define and raise customized exceptions
class TooYoungException(Exception):
    def __init__(self,arg):
        self.msg=arg
class TooOldException(Exception):
    def __init__(self,arg):
        self.msg=arg
age=int(input("Enter age:"))
if age>60:
    raise TooOldException("your age already gone")
elif age<18:
    raise TooYoungException("Plz wait some more time")
else:
    print("Thanks for registration")

Enter age:15

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TooYoungException                                Traceback (most recent call last)
<ipython-input-8-b5e7d33d3a34> in <module>
     10     raise TooOldException("your age already gone")
     11 elif age<18:
--> 12     raise TooYoungException("Plz wait some more time")
     13 else:
     14     print("Thanks for registration")

TooYoungException: Plz wait some more time
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In [ ]:
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