1. Exceptions are raised when the program is syntactically correct, but the code resulted in an error. This error does not stop the execution of the program, however, it changes the normal flow of the program.

def div(a,b):

try:

# code executes here

c = a/b

print("a/b = ",c)

# Using exception object with the except statement

except Exception as e:

print(e)

return "can't divide by zero"

else:

return "This is else block and executed when code in try excetues without any exception"

a = int(input("Enter a:"))

b = int(input("Enter b:"))

print(div(a,b))

Enter a:3

Enter b:0

division by zero

can't divide by zero

try:

f = open('sample.txt','r')

except Exception as e:

print(e)

else:

print("File opened successfully")

f.close()

print('Program is not interrupted')

# If we dont use try except else blocks, normal execution of program will be interrupted.

# with try except, exception is caught when file is not found but program continues execution

[Errno 2] No such file or directory: 'sample.txt'

Program is not interrupted

try:

raise NameError('akash')

except NameError as e:

print("Excepton!!")

Excepton!!

2. Whenever an exception occurs, the program stops the execution, and thus the further code is not executed. Therefore, an exception is the run-time errors that are unable to handle to Python script. An exception is a Python object that represents an error

3. In except block, we write a code to handle exception and next set of actions.

def askint():

while True:

try:

a = int(input('Enter an integer value::'))

except Exception as e:

print(e)

print('Please enter an integer value')

continue

else:

print(f'Yes you have entered an ineger {a}')

break

finally:

print('Yayy i always executes!!')

askint()

4. Try statement – This method throws the exceptions when the code within try is executed.

Raise – Triggers an exception manually using custom exceptions.

5. In else block, code is written to handle if no exception is raised by code in try block.

In finally block, code executes regardless of whether or not an exception exists.