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# 1.  Program for performing some addition, sum, product and division operation on given inpu

try:
  n1=int(input("Enter Integer 1:"))
  n2=int(input("Enter Integer 2:"))
  print(" N1 * N2 = ", n1*n2)
  print(" N1 / N2 =",n1/n2)
  print(" N1 + N2 =",n1+n2)
  print(" N1 - N2 =",n1-n2)
except ValueError:
  print("ValueError- Please enter valid number")
except ZeroDivisionError:
  print("ZeroDivisionError: You can not divide number by 0")
except AttributeError:
  print("AttributeError: Attribute is not valid")
except e as Exception:
  print("Unhandled Exception Ocurred : ",e)
finally:
  print("Program terminated")
```

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Enter Integer 1:6
Enter Integer 2:0
 N1 * N2 =  0
ZeroDivisionError: You can not divide number by 0
Program terminated
```

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# 2.  Program to for all type of file Errors occurred in opening a file input by user and per

file_name=str(input('Please enter valid file name :'))
try:
  f=open(file_name)

  n=input("Enter content to write on file :")
  f.write(n)
  f.close()
except ValueError:
  print("ValueError- Please enter valid File Name")
except OSError:
    print ("Could not open/read file:", file_name)
except FileNotFoundError:
  print ("File does not exists:", file_name)
except IOError:
    print('file not found', file_name)
except e as Exception:
  print("Exception occured ",e)
finally:
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#  f.close()
  print("Program terminated")
```

```
Please enter valid file name :k
Could not open/read file: k
Program terminated
```

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# 3.  Program to demonstrate the use if else block in Try Except block.

def divider(x, y):
    try:
        result = x // y
    except ZeroDivisionError:
        print("Error: dividing by zero ")
    else:
        print("Answer is :", result)
    finally:
        print('Program Terminated')

divider(3, 2)
```

```
Answer is : 1
Program Terminated
```

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# 4.  Program to creating a thread to print the even numbers from 10 to 20  by using Thread C
from _thread import *
import threading as thread


def even(name,timer):
  for i in range(10,20):
    if i%2==0:
      print(name+" : "+str(i))



try:
   thread.start_new_thread( even, ("Thread", 2, ) )
except Exception as e:
   print ("Error: ",e)
```

```
Thread : 10
Thread : 12
Thread : 14
Thread : 16
Thread : 18
```

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# 5.  Program to create following threads
#  1. First thread to print the square of a number entered by user,
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#  2. Second thread to print the cube of a number and show the result. Use start and join ope
from _thread import *
import threading as thread


def sqr(name,num):
  print(name+" : ",num*num)

def cube(name,num):
  print(name+" : ",num*num*num)


try:
  no=int(input("enter number : "))
  thread.start_new_thread( sqr, ("\nThread - 1: Square:", no ) )
  thread.start_new_thread( cube, ("\nThread - 2: Cube :", no ) )

  #join()
  numTuple = ['1', '2', '3', '4']
  print("#".join(numTuple))

except Exception as e:
   print ("Error: ",e)


    enter number : 9
    1#2#3#4
    Thread - 1: Square: :  81

    Thread - 2: Cube : :  729



# End
```