

```
Enter the month:3
Enter the year:2077
    March 2077
Mo Tu We Th Fr Sa Su
 1  2  3  4  5  6  7
 8  9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
```

```
# Date Time module- we can access the day, month and year information
```

```
from datetime import*
dtm=datetime.now()
print(dtm)
```

```
2023-08-05 18:10:39.971930
```

```
# date time combine
```

```
d= date (2077,7,5)
t= time (17,5)
dt= datetime.combine(d,t)
print(dt)
```

```
2077-07-05 17:05:00
```

```
td=date.today()
print(td)
```

```
# Format the td and convert into string
```

```
string= td.strftime('%d,%b,%y')
print(string)
```

```
string=td.strftime('%D,%B,%Y')
print(string)
```

```
2023-08-05
05,Aug,23
08/05/23,August,2023
```

DAY-22 AUG-6

```
# ModuleNotFoundError
```

```
import math
```

```
# AttributeError
```

```
tuple=(1,2,3,4,5)
tuple.append(7)
```

```
-----
-----
AttributeError                                Traceback (most recent call
last)
```

```
Cell In[14], line 4
      1 # AttributeError
      3 tuple=(1,2,3,4,5)
----> 4 tuple.append(7)
```

```
AttributeError: 'tuple' object has no attribute 'append'
```

```
li=[1,2,3,4,5]
li.append(7)
print(li)
```

```
[1, 2, 3, 4, 5, 7]
```

```
#ZeroDivisionError
```

```
x= int(input('Enter the number x:'))
y= int(input('Enter the number y:'))
print(x/y)
```

```
Enter the number x:3
Enter the number y:0
```

```
-----
-----
ZeroDivisionError                                Traceback (most recent call
last)
```

```
Cell In[16], line 5
      3 x= int(input('Enter the number x:'))
      4 y= int(input('Enter the number y:'))
----> 5 print(x/y)
```

```
ZeroDivisionError: division by zero
```

```
# except - Error
```

```
try:
    x= int(input('Enter the number x:'))
    y= int(input('Enter the number y:'))
    print(x/y)
except:
    print('Error Occured')
```

Enter the number x:2
Enter the number y:0
Error Occured

```
try:
    x= int(input('Enter the number x:'))
    y= int(input('Enter the number y:'))
    print(x/y)
except ZeroDivisionError as z:
    print(z)
```

Enter the number x:70
Enter the number y:0
division by zero

#NameError

```
try:
    x= int(input('Enter the number x:'))
    y= int(input('Enter the number y:'))
    print(x/a)
except NameError as n:
    print(n)
```

Enter the number x:70
Enter the number y:7
name 'a' is not defined

How to handle multiple Error

```
try:
    x= int(input('Enter the number x:'))
    y= int(input('Enter the number y:'))
    print(x/y)
except ZeroDivisionError as z:
    print(z)
except NameError as n:
    print(n)
```

Enter the number x:70
Enter the number y:0
division by zero

```
try:
    x= int(input('Enter the number x:'))
    y= int(input('Enter the number y:'))
    print(x/a)
except ZeroDivisionError as z:
    print(z)
except NameError as n:
```

```
print(n)
```

```
Enter the number x:70
Enter the number y:7
name 'a' is not defined
```

```
try:
    x= int(input('Enter the number x:'))
    y= int(input('Enter the number y:'))
    print(x/y)
except ZeroDivisionError as z:
    print(z)
except NameError as n:
    print(n)
```

```
Enter the number x:70
Enter the number y:7
10.0
```

How to handle the error in the list

```
l=[12,3,45,56,78,7.5,90,78]
try:
    l.append(50)
    l.extend([70.77,99])
    print(l[5])
except IndexError as i:
    print(i)
else:
    print(len(l))
finally:
    print(l)
    print(l.count(78))

7.5
11
[12, 3, 45, 56, 78, 7.5, 90, 78, 50, 70.77, 99]
2
```

How to handle the error in the list

```
l=[12,3,45,56,78,7.5,90,78]
try:
    l.append(50)
    l.extend([70.77,99])
    print(l[20])
except IndexError as i:
    print(i)
else:
```

```

    print(len(l))
finally:
    print(l)
    print(l.count(78))

```

```

list index out of range
[12, 3, 45, 56, 78, 7.5, 90, 78, 50, 70.77, 99]
2

```

How to handle the error in file handling

```

try:
    with open('D:\\python programming\\w-text.txt','r') as f:
        print(f.read())
except IOError as o:
    print(o)

```

w- used to write content in the file. for 1st time opening the file we can use w but to write again in the same file we should not use (w) instead use append-a
use a-append to add new content in the already existing file .if we use w it will remove the content that is already existing in the file

```

try:
    with open('D:\\python programming\\G-text.txt','r') as f:
        print(f.read())
except IOError as o:
    print(o)

```

```

[Errno 2] No such file or directory: 'D:\\python programming\\G-text.txt'

```

How to handle error in math module

```

import math
x=int(input('Enter the number x:'))
try:
    y=math.factorial(x)
    print('Factorial of the number x is:',y)
except ValueError as arg:
    print(arg)
except NameError as n:
    print(n)

```

```

Enter the number x:7
Factorial of the number x is: 5040

```

```

x=int(input('Enter the number x:'))
try:
    y=math.factorial(x)

```

```
    print('Factorial of the number x is:',y)
except ValueError as arg:
    print(arg)
except NameError as n:
    print(n)
```

Enter the number x:-7
factorial() not defined for negative values

```
x=int(input('Enter the number x:'))
try:
    y=math.factorial(x)
    print('Factorial of the number x is:',Y)
except ValueError as arg:
    print(arg)
except NameError as n:
    print(n)
```

Enter the number x:7
name 'Y' is not defined

eval - Evaluate

```
x=eval(input('Enter the values:'))
print(x)
```

Enter the values:70+5/2
72.5

```
x=7
print(eval('x==7'))
```

True

A python program to handle the syntax error given by eval() function

```
try:
    e=eval(input('Enter the value:'))
except SyntaxError:
    print('SyntaxError')
else:
    print('The value is',e)
```

Enter the value:5*8-45+190
The value is 185

```
try:
    e=eval(input('Enter the value:'))
except SyntaxError:
    print('SyntaxError')
else:
```

```
print('The value is',e)
```

Enter the value:45 90,04.8-45/45
SyntaxError

OS module - Operating system

```
import os
```

mkdir - going to make the directory(Folder)

```
os.mkdir('D:\\Empty')
```

getcwd - get the name of the current working directory

```
os.getcwd()
```

```
'C:\\Users\\ELCOT\\Desktop\\Python Anaconda'
```

rmdir - its going to remove the directory

```
os.rmdir('D:\\Empty')
```

```
os.rename('D:\\python programming\\sec.txt','D:\\python programming\\ABC.txt')
```

```
os.remove('D:\\python programming\\ABC.txt')
```

DAY-23 AUG-12

#00Ps - class is a key word. class is a collection of object

Function in python

def is a key word **for** function

Function Program

```
def find_max(x,y,z):  
    max_number = max(x,y,z)  
    return max_number
```

```
maximum = find_max(56,78,90)  
print('The maximum number is:',maximum)
```

The maximum number is: 90

write a python function to find the max of three numbers