

7th nov

- time 1hr 10 mins

Try-Except

- try and exception are two blocks
- Original code will write under **try block**
- if any error occurs in original code
- it will redirect to **except** block
- **except** block will catch the errors in try block
- **why we use try-except to avoid the following error**
 - syntax error
 - case sensitive error
 - name error
 - zero division error
 - indentation error

note

- other than syntax error all are become logic error or mis match logic that's why error occurs

Syntax

```
In [ ]: try:
        <write your original code here>
except:
        <catch the error here>
```

```
In [1]: n1 = 10
        n2 = 20
        add = n1+n2
        print(add)
```

30

```
In [2]: try:
        n1 = 10
        n2 = 20
        add = n1+n2
        print(add)
```

Cell In[2], line 6

^

SyntaxError: incomplete input

- **error** when ever you use try block then always comes after try, exceptional block

```
In [3]: try:
        n1 = 10
        n2 = 20
        add = n1+n2
        print(add)
    except:
        print("the code is not good")
```

30

```
In [4]: try:
        n1 = 10
        n2 = 20
        add = n1+n22
        print(add)
    except:
        print("the code is not good")
```

the code is not good

```
In [5]: try:
        n1 = 10
        print(n1)
        n2 = 20
        print(n2)
        add = n1+n22 # here error comes
        print(add)
    except:
        print("the code is not good")
```

10

20

the code is not good

```
In [ ]: **syntax**

        try:
            <write your code>
        except Exception as e:
            print(e)
```

```
In [6]: try:
        n1 = 10
        print(n1)
        n2 = 20
        print(n2)
        add = n1+n22 # here error comes
        print(add)
    except Exception as e:
        print(e)
```

```
10
20
name 'n22' is not defined
```

```
In [7]: n1 = eval(input("enter a number"))
        n2 = eval(input("enter a number"))
        div = n1/n2
        print(div)
```

```
-----
ZeroDivisionError                                Traceback (most recent call last)
Cell In[7], line 3
      1 n1 = eval(input("enter a number"))
      2 n2 = eval(input("enter a number"))
----> 3 div = n1/n2
      4 print(div)

ZeroDivisionError: division by zero
```

```
In [9]: try:
        n1 = eval(input("enter a number"))
        n2 = eval(input("enter a number"))
        div = n1/n2
        print(div)
    except Exception as e:
        print(e)
```

division by zero

Note

try and except not find only syntax error other than syntax it will find any error

```
In [10]: try:
        num1 = eval(input("enter a number"))
        num2 = eval(input("enter a number"))
        num3 = eval(input("enter a number"))

        if num1 > num2:
            if num1 > num3:
                print(f"the biggest number is {num1}")
            else:
                print(f"the biggest number is {num3}")
        elif num2 > num3:
            print(f"the biggest number is {num2}")
        else:
            print(f"the biggest number is {num3}")
    except Exception as e:
        print(e)
```

name 'num11' is not defined

```
In [13]: import sys
        dir(sys)
        sys.version
```

```
Out[13]: '3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18 2024, 15:03:56) [MSC v.192
          9 64 bit (AMD64)]'
```

```
In [ ]:
```

In []:

In []:

In []:

In []: