```
In [ ]: try
       except
       are the keywords
In [ ]: there is a senarion you have written 500 lines of code
       python complies step by step
       suppose you got the error at 250 line
       the remaining lines will not execute
       - eventhough if the error comes at 250 line, it should not affect the other
       - error should not come
       try and except
In [1]: | n1=eval(input("enter a number:"))
       n2=100
       add=n1+n2
       print(add)
       enter a number:python
        ______
       NameError
                                              Traceback (most recent call las
       t)
       Cell In[1], line 1
       ----> 1 n1=eval(input("enter a number:"))
             2 n2=100
             3 add=n1+n2
       File <string>:1
       NameError: name 'python' is not defined
In [ ]: # entire code should implement under try block
       # what ever the error comes in the code will display under except block
```

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In [2]: try:
            n1=eval(input("enter a number:"))
            n2=100
            add=n1+n2
            print(add)
        except:
            print("error coming look at the syntax")
        # when error is in code , then except block will print
        enter a number:python
        error coming look at the syntax
In [3]: try:
            n1=eval(input("enter a number:"))
            add=n1+n2
            print(add)
        except:
            print("error coming look at the syntax")
        enter a number:100
        200
In [4]: try:
            n1=eval(input("enter a number:"))
            n2=100
            add=n1+n2
            print(add)
        except:
            print("error coming look at the syntax")
          Cell In[4], line 2
            n1=eval(input("enter a number:"))
        IndentationError: expected an indented block after 'try' statement on line
```

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In [11]: | n1=eval(input("enter a number:"))
         n2='100'
         add=n1/n2
         print(add
         # name error
         # value error
         # syntax error
         # type error
           Cell In[11], line 9
             # type error
         SyntaxError: incomplete input
In [13]: try:
             n1=eval(input("enter a number:"))
             n2=100
             add=n1+n2
             print(add)
         except:
             print("error") # what is best way
         # Name error
         # value error
         # syntax error
         # what ever error comes in code , that should display
         # Need to catch the error
         enter a number:p
         error
 In [ ]: # step-1: we want to avoid the error
                    try - except block
         # step-2: we need to catch the correct error in the excption block
                    # name error
                    # value eror
                    # syntax error
In [21]: try:
             n1=eval(input("enter a number:"))
             n2=0
             add=n1/n2
             print(add)
         except Exception as e:
             print(e)
         # as means alias name
         enter a number:0
         division by zero
```

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In [ ]: try:
             number1=100
             number2=200
             add=number1+number2
             print("the addition of {} and {} is {}".format(number1,number2,add))
         except Exception as e:
             print(e)
 In [ ]: try:
             number1=input("enter a number1:") # step-1: it will ask the number1='10
             number2=input("enter a number2:") # step-2: it will ask the number2='20
                                                # '100'+'200'='100200'
             add=number1+number2
             print("the addition of {} and {} is {}".format(number1,number2,add))
         except Exception as e:
             print(e)
 In [ ]: lets say i have 100 lines --
         one line has error ...
         i still want to execute the code by ignoring the line ...
         how to do it ???
In [23]: try:
             mp=eval(input("Enter Meal price:"))
             tip=eval(input("Please let me know the tip in %"))
             t_amount=(mp*tip)/100
             tot=mp+t_amount
             print("The tip amount is {} and total amount is {}".format(t_amount,tot
         except Exception as e:
             print(e)
         Enter Meal price:p
         name 'p' is not defined
In [28]: try:
             number1=input("enter a number1:") # step-1: it will ask the number1='10
             number2=input("enter a number2:") # step-2: it will ask the number2='20
             add=number1+number2 # '100'+'200'='100200'
             print("the addition of {} and {} is {}".format(number1,number2,add))
         except exception is e:
             print(e)
         enter a number1:a
         enter a number2:100
         the addition of a and 100 is a100
         'A' + 'B'
In [26]:
Out[26]: 'AB'
In [29]:
         'A'+'100'
Out[29]: 'A100'
```

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In [30]:
         '100'+'200'
Out[30]: '100200'
In [32]: # WAP ask the user enter two numbers and add those number
         number1=100
         number2=200
         add1=number1+number2
         print(add1)
         # WAP ask the user enter numbers from keyboard and add those number
         number11=eval(input("enter number1:"))
         number22=eval(input("enter number2:"))
         add2=number11+number22
         print(add2)
         #WAP ask the user to get two random integer numbers and add those number
         300
         enter number1:600
         enter number2:700
         1300
In [39]: import random
         number1=random.randint(1,100) # shift+tab
         print('number1 is:',number1)
         number2=random.randint(1,200)
         print('number2 is:',number2)
         add=number1+number2
         print(add)
         number1 is: 53
         number2 is: 124
         177
In [40]: |help(random.randrange)
         Help on method randrange in module random:
         randrange(start, stop=None, step=1) method of random.Random instance
             Choose a random item from range(stop) or range(start, stop[, step]).
             Roughly equivalent to ``choice(range(start, stop, step))`` but
             supports arbitrarily large ranges and is optimized for common cases.
```

```
In [45]: random.randrange(0,100,step=5)
    # start=0
    # stop=100
    # step=5

# 0 5 10 15 20 25 30 .....

# loops clear idea

# read python everybody

Out[45]: 45

In []: import <package_name>
```

dir(<package_name>)

help(<package_name>.method)

In [35]: import random
dir(random)

```
Out[35]: ['BPF',
             'LOG4',
             'NV_MAGICCONST',
             'RECIP_BPF',
             'Random',
             'SG_MAGICCONST',
             'SystemRandom',
             'TWOPI',
             '_ONE',
             '_Sequence',
             _Set',
'_Set',
               _all__',
             ___builtins__',
             '__cached__',
             '__doc__',
               __file__',
             '__loader__',
             '__name__',
             ___package__',
               __spec___',
             '_accumulate',
'_acos',
'_bisect',
             '_ceil',
             '_cos',
'_e',
'_exp',
             '_floor',
'_index',
'_inst',
             '_isfinite',
             _log',
'_los',
'_pi',
             '_random',
             _
'_repeat',
'_sha512',
             '_sin',
             '_sqrt',
'_test',
'_test_generator',
             '_urandom',
             '_warn',
             'betavariate',
             'choice',
             'choices',
             'expovariate',
             'gammavariate',
             'gauss',
             'getrandbits',
             'getstate',
             'lognormvariate',
             'normalvariate',
             'paretovariate',
             'randbytes',
             'randint',
             'random',
             'randrange',
             'sample',
             'seed',
             'setstate',
```

```
'triangular',
           'uniform',
           'vonmisesvariate',
           'weibullvariate'
In [36]: help(random.randint)
         Help on method randint in module random:
          randint(a, b) method of random.Random instance
              Return random integer in range [a, b], including both end points.
 In [ ]: sir how to find in which package it is there. only by googling anaconda rep
         pip freeze
 In [ ]: what is difference between randint and randrange
In [46]: import pandas
In [47]: |dir(pandas)
           'lreshape',
           'melt',
           'merge',
           'merge_asof',
           'merge_ordered',
           'notna',
           'notnull',
           'offsets',
           'option_context',
           'options',
           'pandas',
           'period_range',
           'pivot',
           'pivot_table',
           'plotting',
           'qcut',
           'read_clipboard',
           'read csv',
           'read excel',
           'read feather'
 In [ ]:
 In [ ]:
 In [ ]:
 In [ ]:
```

'shuffle',