

```

while True:
    no_one = int(input("The first number please : "))
    no_two = int(input("The second number please : "))
    division = no_one / no_two
    print("The result of the division is : ", division)
    break

```

```

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ZeroDivisionError                                Traceback (most recent call
last)

```

```

Cell In[3], line 4
      2 no_one = int(input("The first number please : "))
      3 no_two = int(input("The second number please : "))
----> 4 division = no_one / no_two
      5 print("The result of the division is : ", division)
      6 break

```

```

ZeroDivisionError: division by zero

```

try: code block to be normally executed except: code block to be exceptionally executed

```

while True:
    no_one = int(input("The first number please : "))
    no_two = int(input("The second number please : "))
    try:
        division = no_one / no_two
        print("The result of the division is : ", division)
        break
    except:
        print("Something went wrong! Try again.")

```

```

Something went wrong! Try again.
The result of the division is :  4.0

```

```

while True:
    no_one = int(input("The first number please : "))
    no_two = int(input("The second number please : "))
    try:
        division = no_one / no_two
        print("The result of the division is : ", division)
        break
    except ZeroDivisionError:
        print("You can not divide zero! Try again.")

```

```

You can not divide zero! Try again.
The result of the division is :  4.0

```

```

while True:
    no_one = int(input("The first number please : "))

```

```

no_two = int(input("The second number please : "))
try:
    division = no_one / no_two
    print("The result of the division is : ", division)
    break
except ZeroDivisionError:
    print("You can not divide zero! Try again.")
else:
    print("The result of the division is : ", division)
finally:
    print("Thanks for using our mini division calculator! Come
again!")

```

```

-----
-----
ValueError                                Traceback (most recent call
last)

```

```

Cell In[9], line 3
      1 while True:
      2     no_one = int(input("The first number please : "))
----> 3     no_two = int(input("The second number please : "))
      4     try:
      5         division = no_one / no_two

```

ValueError: invalid literal for int() with base 10: 'k'

```

while True:
    try:
        no_one = int(input("The first number please : "))
        no_two = int(input("The second number please : "))
        division = no_one / no_two
        print("The result of the division is : ", division)
        break
    except Exception as e:
        print("Something went wrong...Try again.")
        print("Probably it is because of '{} ' error".format(e))
        break

```

Something went wrong...Try again.
Probably it is because of 'division by zero' error

```

try :
    a = 10
    b = 2
    print("The result of division is :", c)
except Exception as e:
    print("The error message is : ", e)

```

The error message is : name 'c' is not defined

```
try:
    x = 4 / 1
except:
    print('Something went wrong')
else:
    print('Nothing went wrong. There is no exception')
```

Nothing went wrong. There is no exception

```
try:
    x = 3 / 0
except:
    print('Something went wrong')
else:
    print('Nothing went wrong. There is no exception')
finally:
    print('Always execute this')
```

Something went wrong
Always execute this

```
try:
    f = open('myfile.txt')
    print(f.read())
except:
    print("Something went wrong")
finally:
    print("no file")
```

Something went wrong
no file

```
import os
os.listdir()
```

```
['01-08-23_inclass.ipynb',
'02-08-23_inclass.ipynb',
'03-08-23_inclass.ipynb',
'04-08-23_inclass.ipynb',
'07-0823_inclass.ipynb',
'08-08-23_inclass.ipynb',
'09-08-23_inclass.ipynb',
'diary.txt',
'diary2.txt',
'first_file.txt',
'list.docx',
'modules.py',
'my_module.py',
'newfolder',
'test.py',
'test.txt',
```

```
'test2.ipynb',  
['__pycache__']
```

JSON (Java Script Object Notation)

```
import json  
print(dir(json))  
json.dumps(5)  
json.dumps([1,"string",3.0])  
json.loads('[1, "string", 3]')  
  
['JSONDecodeError', 'JSONDecoder', 'JSONEncoder', '__all__',  
 '__author__', '__builtins__', '__cached__', '__doc__', '__file__',  
 '__loader__', '__name__', '__package__', '__path__', '__spec__',  
 '__version__', '_default_decoder', '_default_encoder', 'codecs',  
 'decoder', 'detect_encoding', 'dump', 'dumps', 'encoder', 'load',  
 'loads', 'scanner']
```

```
[1, 'string', 3]
```

```
import json  
filename = 'userName.json'  
name = ''  
#Check for a history file  
try:  
    with open(filename, 'r') as r: # Load the user's name from the history file  
        name = json.load(r)  
except IOError:  
    print("First-time login")  
#If the user was found in the history file, welcome them back  
if name != "":  
    print("Welcome back, " + name + "!")  
else: # If the history file doesn't exist, ask the user for their name  
    name = input("Hello! What's your name? ")  
    print("Welcome, " + name + "!")  
#Save the user's name to the history file  
try:  
    with open(filename, 'w') as f:  
        json.dump(name, f)  
except IOError:  
    print("There was a problem writing to the history file.")
```

Welcome, Fatih!

The formula syntax is : pip command options

```
def new_user(): # new_user adında bir function tanımladık  
    confirm = "N" # confirm değişkenimiz default "N"  
    while confirm != "Y": # While döngüsü confirm değişkeni "N"  
        olduğu("Y" ye eşit olmadığı) sürece devam edecek.
```

```
username = input("Enter the name of the user to add: ") #  
username değişkeni tanımlayıp değeri inputla userdan istedik, eklemek  
istediği username
```

```
print("Use the username '" + username + "'? (Y/N)") # printle  
bu usernamei kabul edip etmediğini sorduk, cevabı "Y"/"N" olarak  
istedik
```

```
confirm = input().upper() # verilecek cevabı her koşulda  
uppercase yaparak confirm değişkenine atadık
```

```
os.system("sudo adduser " + username) #cevap "Y" ise döngüden  
çıkart ve os.system komutuyla terminale "sudo adduser username"  
yazdırır. Böylelikle sisteme yeni user eklemiş oluruz. Bir önceki  
adımda kullanıcı "N" cevabı verirse döngü başa döner
```

```
new_user()
```

```
Use the username 'tugba'? (Y/N)
```

```
def remove_user():  
    confirm = "N"  
    while confirm != "Y":  
        username = input("Enter the name of the user to remove: ")  
        print("Remove the user : '" + username + "'? (Y/N)")  
        confirm = input().upper()  
        os.system("sudo userdel -r " + username)
```

```
remove_user()
```

```
Remove the user : 'tugba'? (Y/N)
```

```
import subprocess  
import os
```

```
def add_user_to_group():  
    username = input("Enter the name of the user that you want to add  
to a group: ")  
    output = subprocess.Popen('groups',  
stdout=subprocess.PIPE).communicate()[0]  
    print("Enter a list of groups to add the user to")  
    print("The list should be separated by spaces, for example:\r\n  
group1 group2 group3")  
    print("The available groups are: " + str(output))  
    chosenGroups = str(input("Groups: "))  
    output = str(output).split(" ")  
    chosenGroups = chosenGroups.split(" ")  
    print("Add To:")  
    found = True  
    groupString = ""  
    for grp in chosenGroups:  
        for existingGrp in output:  
            if grp == existingGrp:  
                found = True
```

```

        print("-Existing Group : " + grp)
        groupString = groupString + grp + ","
    if found == False:
        print("-New Group : " + grp)
        groupString = groupString + grp + ","
    else: found = False
    groupString = groupString[:-1] + " "
confirm = ""
while confirm != "Y" and confirm != "N" :
    print("Add user '" + username + "' to these groups? (Y/N)")
    confirm = input().upper()
if confirm == "N":
    print("User '" + username + "' not added")
elif confirm == "Y":
    os.system("sudo usermod -aG " + groupString + username)
    print("User '" + username + "' added")

def install_or_remove_packages():
    iOrR = ""
    while iOrR != "I" and iOrR != "R":
        print("Would you like to install or remove packages? (I/R)")
        iOrR = input().upper()
    if iOrR == "I":
        iOrR = "install"
    elif iOrR == "R":
        iOrR = "remove"
    print("Enter a list of packages to install")
    print("The list should be separated by spaces, for example:")
    print(" package1 package2 package3")
    print("Otherwise, input 'default' to " + iOrR + " the default
packages listed in this program")
    packages = input().lower()
    if packages == "default":
        packages = defaultPackages
    if iOrR == "install":
        os.system("sudo yum install " + packages)
    elif iOrR == "remove":
        while True:
            print("Purge files after removing? (Y/N)")
            choice = input().upper()
            if choice == "Y":
                os.system("sudo yum --purge " + iOrR + " " + packages)

                break
            elif choice == "N":
                os.system("sudo yum " + iOrR + " " + packages)
                break
        os.system("sudo yum autoremove")

install_or_remove_packages()

```

```
def clean_environment():
    os.system("sudo yum autoremove")

clean_environment()

subprocess.run(["python", "--version"])

var = "Double Value"
sumvalue = var + 4

def dosomething(valuetocheck):
    if valuetocheck > 4:
        print("Bad indent")
```

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TypeError                                Traceback (most recent call
last)
Cell In[58], line 2
      1 var = "Double Value"
----> 2 sumvalue = var + 4
      4 def dosomething(valuetocheck):
      5     if valuetocheck > 4:

TypeError: can only concatenate str (not "int") to str
```