Q. 541 Write a python program to create a directory and subdirectory. It should print the current working directory path

and list of names of files present in the given directory.

In [12]:
```
import os
#to create new directory
os.mkdir("D:\Pyth")
#Open the folder in D Drive, and check MyPythonProjects folder will be created
print("Directory created")
```

```
Directory created
```

In [16]:
```
import os
#to create new directory
os.mkdir("D:\\Pyth\\1234")
#Open the folder in D Drive, and check MyPythonProjects folder will be created
print("SubDirectory created")
```

```
SubDirectory created
```

In [17]:
```
#Program to get the following functions: getcwd(), mkdir()
#import operating system
import os
#to create new directory
print(os.getcwd())
```

```
C:\Users\Abhi
```

In [18]:
```
#Program to get the following functions: listdir()
#import operating system
import os
#to list directory
print(os.listdir())
```

```
['-1.14-windows.xml', '.conda', '.condarc', '.continuum', '.idlerc', '.ipynb_check
points', '.ipython', '.jupyter', '.vscode', '3D Objects', '560.txt', 'A3_T1.ipyn
b', 'abc.txt', 'anaconda3', 'AppData', 'Application Data', 'as.py', 'Ball.png', 'b
hz.txt', 'C2_T1.ipynb', 'C3_T1.ipynb', 'C6_T1.ipynb', 'C7_T1.ipynb', 'ca.py', 'ca
l.py', 'calculator.py', 'Contacts', 'Cookies', 'data_file_one.txt', 'Desktop', 'Do
cuments', 'Downloads', 'F1.txt', 'Favorites', 'file1.txt', 'file11.txt', 'file12.t
xt', 'file2.txt', 'filtercondition', 'filtercondition.rar', 'final obj.ipynb', 'fi
rst_word.py', 'hello.ipynb', 'image1.jpeg.py', 'image1.jpg', 'IPE schedule Sem-IV_
SY_with External Name.pdf', 'Links', 'LJIET PG_ FRIEND LIST_CURRICULAR_SCHOLARSHIP
FOR SIF.docx', 'Local Settings', 'modpract.py', 'moviere', 'Music', 'My Document
s', 'NetHood', 'NTUSER.DAT', 'ntuser.dat.LOG1', 'ntuser.dat.LOG2', 'NTUSER.DAT{53b
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ipynb', 'Pictures', 'Practise_Program_for_T2-Q.ipynb', 'Practise_Program_for_T2.ip
ynb', 'PrintHood', 'Python QB checking.ipynb', 'Python-2 Files for IPE.rar', 'pyth
on1.txt', 'python2.txt', 'python3.txt', 'QP_25-11-2023.ipynb', 'Recent', 'Saved Ga
mes', 'ScStore', 'Searches', 'SendTo', 'shahabhi03', 'shahabhiC134', 'Start Menu',
'story.txt', 'T2_C1.ipynb', 'T2_C2.ipynb', 'T2_C5.ipynb', 'T2_C7.ipynb', 'T2_C9.ip
ynb', 'T3_C1.ipynb', 'T3_C6.ipynb', 'T3_Chapter 8_QB_AKS_solution.ipynb', 'Templat
es', 'Unit -8 QB_Long Questions.ipynb', 'Unit 3 Regular Expressions_AKS.ipynb', 'U
nit 4- Immutable Data Structures_Practics Programs plus Theory_AKS.ipynb', 'Unit 6
QB Long Questions_AKS.ipynb', 'Unit-4 QB Long Questions_T2_AKS.ipynb', 'Unit-4 QB
Long Questions_T2_AKS.pdf', 'Unit-5 QB Long Questions_T2_AKS.ipynb', 'Unit-7 QB Lo
ng Questions_Solution.ipynb', 'untitled', 'Untitled.ipynb', 'untitled1', 'Untitled
1.ipynb', 'Untitled10.ipynb', 'Untitled11.ipynb', 'Untitled12.ipynb', 'Untitled13.
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'Untitled5.ipynb', 'Untitled6.ipynb', 'Untitled7.ipynb', 'Untitled8.ipynb', 'Untit
led9.ipynb', 'user_input_lines.txt', 'Videos', '__pycache__']
```
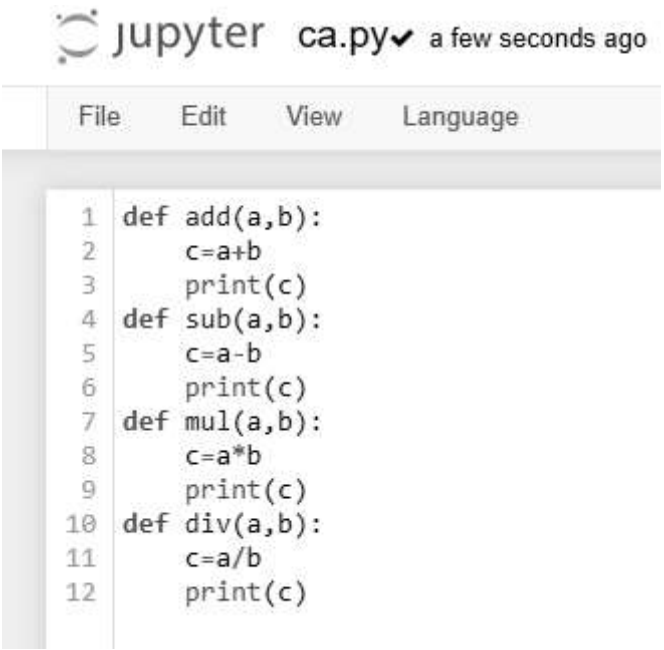

Q. 542

Write a python program to make a module named cal.py which contain all the basic functions related to calculator like addition, subtraction, multiplication, and division import that module in another file and use that functions with number inputs given by user.



In [11]:
```
import ca
ca.add(10,5)
ca.sub(10,5)
ca.mul(10,5)
ca.div(10,5)
```

```
15
5
50
2.0
```

Q. 543

Write a program to create a module ‘first_word.py’, which returns the first word of any string passed. Show the working of the module, by calling the module with any suitable example. Input: ‘This is Python Programming’ Output: ‘This’

In [1]:
```
# main_script.py
from first_word import get_first_word

# Example usage
input_string = 'This is Python Programming'
result = get_first_word(input_string)

print(f"Input: '{input_string}'")
print(f"Output: '{result}'")
```

```
Input: 'This is Python Programming'
Output: 'This'
```

Q. 544 Write a python program to copy content of File1 into File2 in which all lines of a file1 or remaining portion of line except

those that have hash sign (#) (means comments). Input:

Hello LJ

Wish you happy Republic #Day Happy 74th Republic Day What a #Parade at Kartavya Path Very Happy after watching that parade Output: Wish you happy Republic Happy 74th Republic Day What a Very Happy after watching that parade

In [3]:
```
def copy_without_comments(file11, file12):
    with open(file11, 'r') as f1, open(file12, 'w') as f2:
        for line in f1:
            # Remove text after '#' if present
            modified_line = line.split('#', 1)[0].strip()

            # Write to File2 if the line is not empty after removing comments
            if modified_line:
```

```
                f2.write(modified_line + '\n')

# Example usage
file11_path = 'file11.txt'
file12_path = 'file12.txt'

copy_without_comments(file11_path, file12_path)

# Print the content of File2
with open(file12_path, 'r') as f2:
    print("Output:")
    print(f2.read())
```

```
Output:
Wish you happy Republic
Happy 74th Republic Day
What a
Very Happy after watching that parade
```

In [ ]: