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Sub: Internship of python(online)

Branch: IT

College name: GEC Modasa

Year : 3rd year

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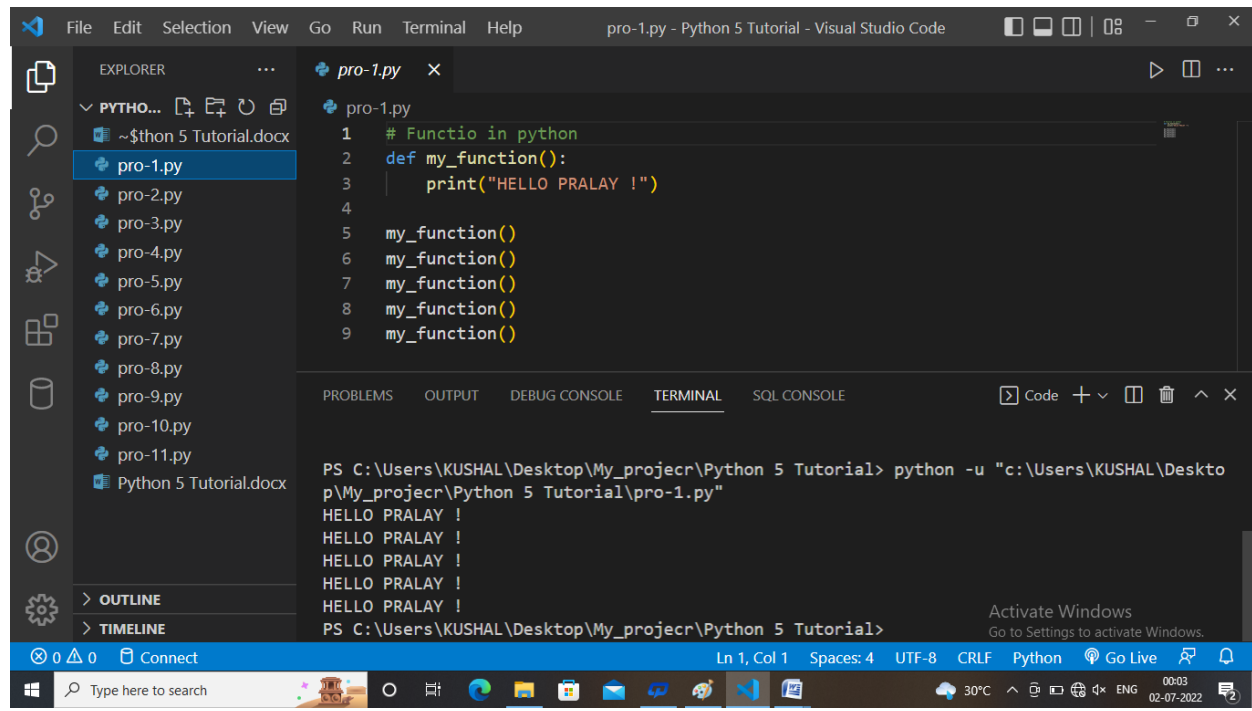
Guided by: Devanshi ma'm

Company name: Akash Technolabs

Exercise : 5 Tutorial Practice programs

Date : 26/06/2022

(PRACTICAL – 1):



```
File Edit Selection View Go Run Terminal Help pro-1.py - Python 5 Tutorial - Visual Studio Code
```

EXPLORER

- ~\$thon 5 Tutorial.docx
- pro-1.py
- pro-2.py
- pro-3.py
- pro-4.py
- pro-5.py
- pro-6.py
- pro-7.py
- pro-8.py
- pro-9.py
- pro-10.py
- pro-11.py
- Python 5 Tutorial.docx

pro-1.py

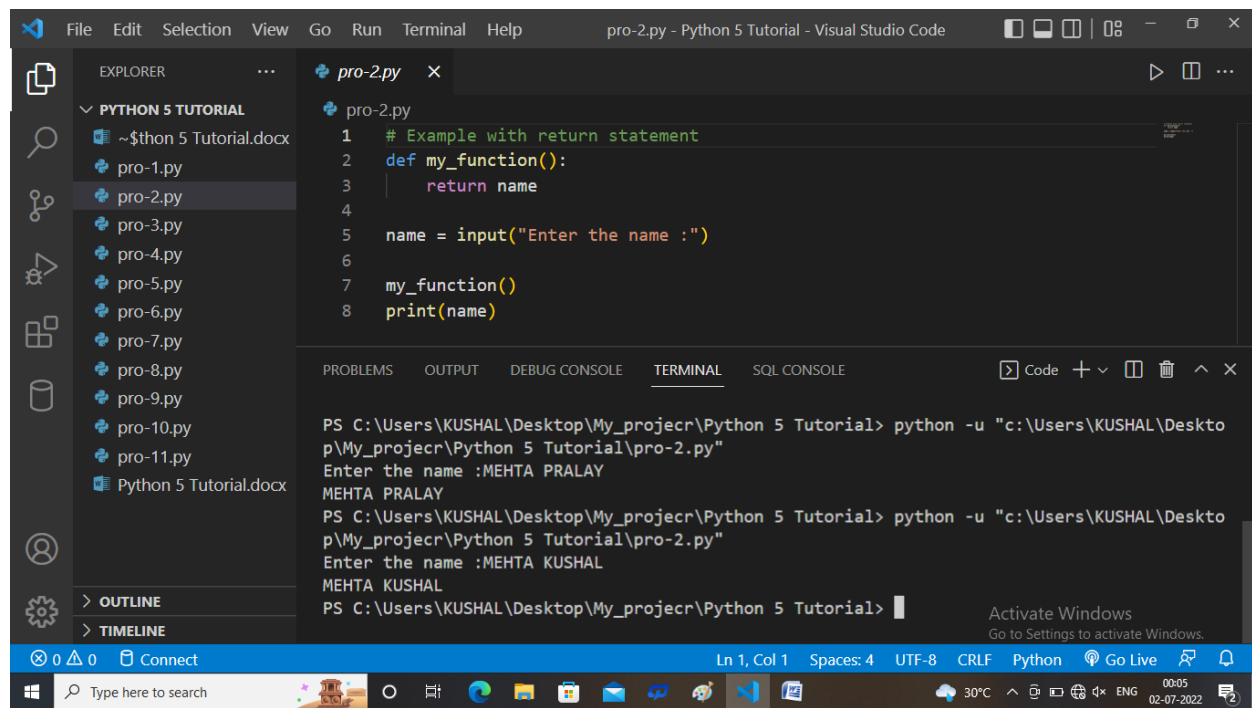
```
1 # Functio in python
2 def my_function():
3     print("HELLO PRALAY !")
4
5 my_function()
6 my_function()
7 my_function()
8 my_function()
9 my_function()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE

```
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-1.py"
HELLO PRALAY !
HELLO PRALAY !
HELLO PRALAY !
HELLO PRALAY !
HELLO PRALAY !
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial>
```

0 0 Connect Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python Go Live 00:03 02-07-2022

(PRACTICAL – 2):



```
File Edit Selection View Go Run Terminal Help pro-2.py - Python 5 Tutorial - Visual Studio Code
```

EXPLORER

- ~\$thon 5 Tutorial.docx
- pro-1.py
- pro-2.py
- pro-3.py
- pro-4.py
- pro-5.py
- pro-6.py
- pro-7.py
- pro-8.py
- pro-9.py
- pro-10.py
- pro-11.py
- Python 5 Tutorial.docx

pro-2.py

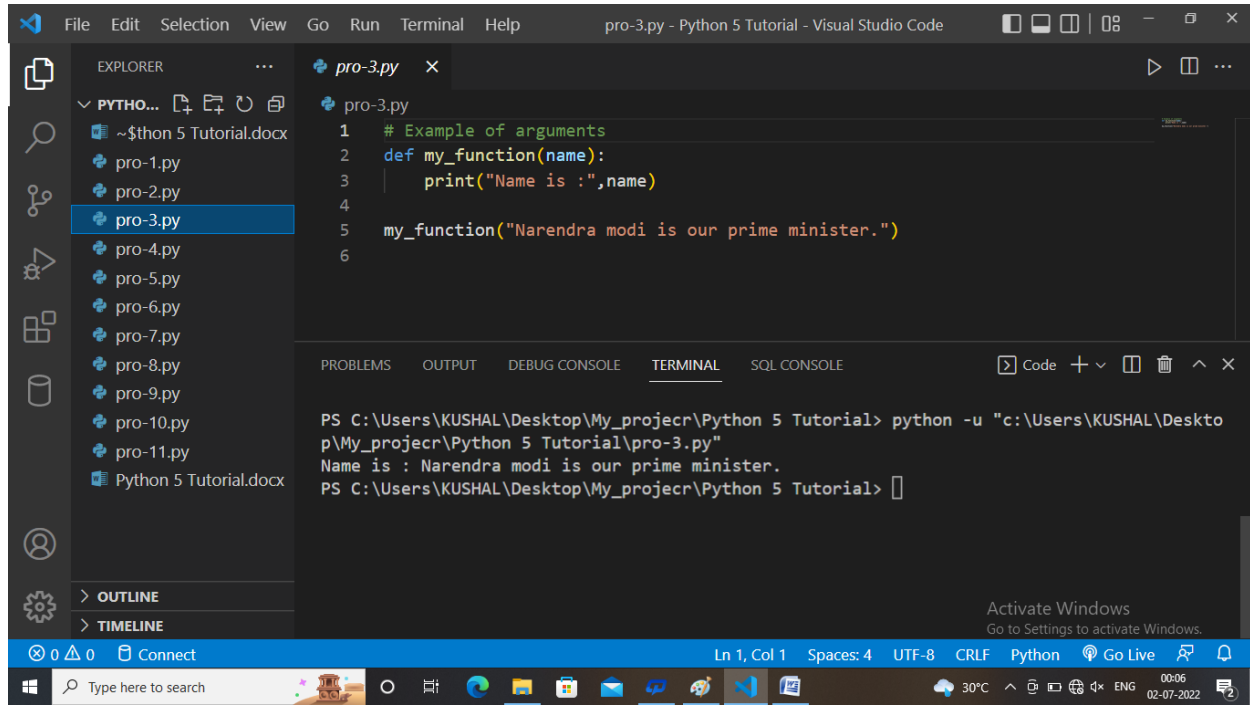
```
1 # Example with return statement
2 def my_function():
3     return name
4
5 name = input("Enter the name :")
6
7 my_function()
8 print(name)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE

```
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-2.py"
Enter the name :MEHTA PRALAY
MEHTA PRALAY
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-2.py"
Enter the name :MEHTA KUSHAL
MEHTA KUSHAL
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial>
```

0 0 Connect Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python Go Live 00:05 02-07-2022

(PRACTICAL – 3):



```
File Edit Selection View Go Run Terminal Help pro-3.py - Python 5 Tutorial - Visual Studio Code
```

EXPLORER

- ~\$thon 5 Tutorial.docx
- pro-1.py
- pro-2.py
- pro-3.py
- pro-4.py
- pro-5.py
- pro-6.py
- pro-7.py
- pro-8.py
- pro-9.py
- pro-10.py
- pro-11.py
- Python 5 Tutorial.docx

pro-3.py

```
1 # Example of arguments
2 def my_function(name):
3     print("Name is :",name)
4
5 my_function("Narendra modi is our prime minister.")
6
```

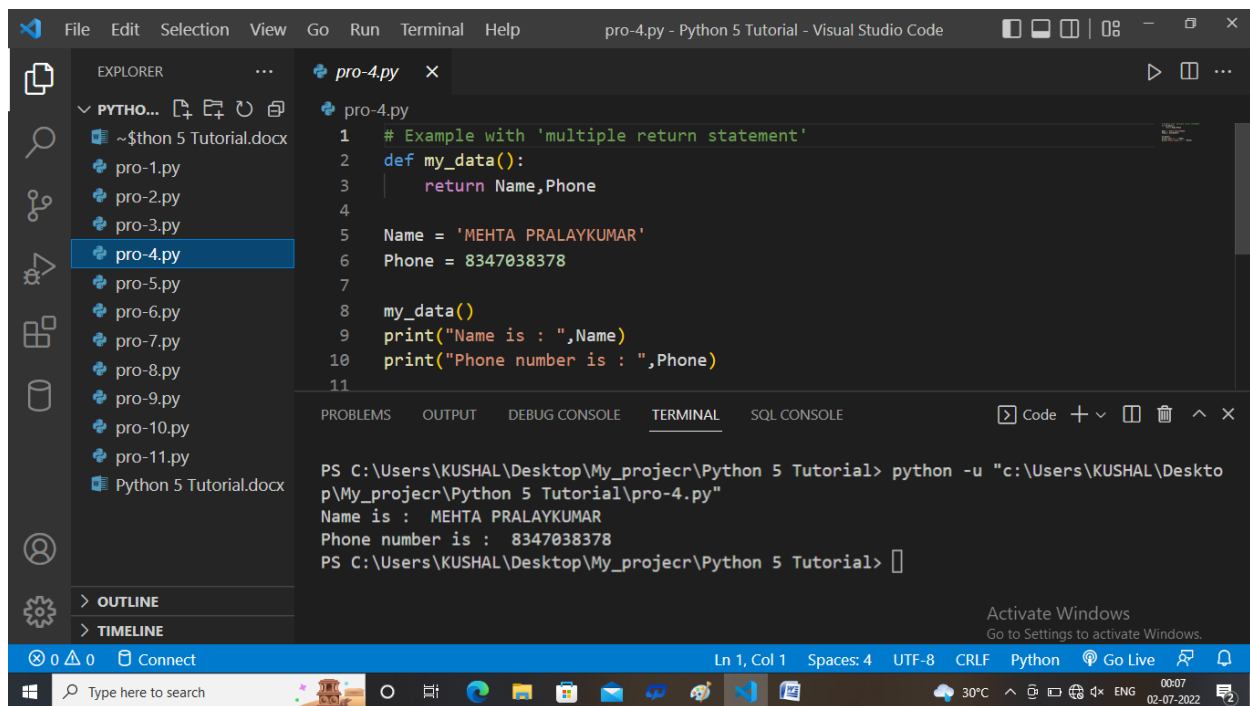
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE

```
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-3.py"
Name is : Narendra modi is our prime minister.
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial>
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python Go Live

00:06 02-07-2022

(PRACTICAL – 4):



```
File Edit Selection View Go Run Terminal Help pro-4.py - Python 5 Tutorial - Visual Studio Code
```

EXPLORER

- ~\$thon 5 Tutorial.docx
- pro-1.py
- pro-2.py
- pro-3.py
- pro-4.py
- pro-5.py
- pro-6.py
- pro-7.py
- pro-8.py
- pro-9.py
- pro-10.py
- pro-11.py
- Python 5 Tutorial.docx

pro-4.py

```
1 # Example with 'multiple return statement'
2 def my_data():
3     return Name,Phone
4
5 Name = 'MEHTA PRALAYKUMAR'
6 Phone = 8347038378
7
8 my_data()
9 print("Name is : ",Name)
10 print("Phone number is : ",Phone)
11
```

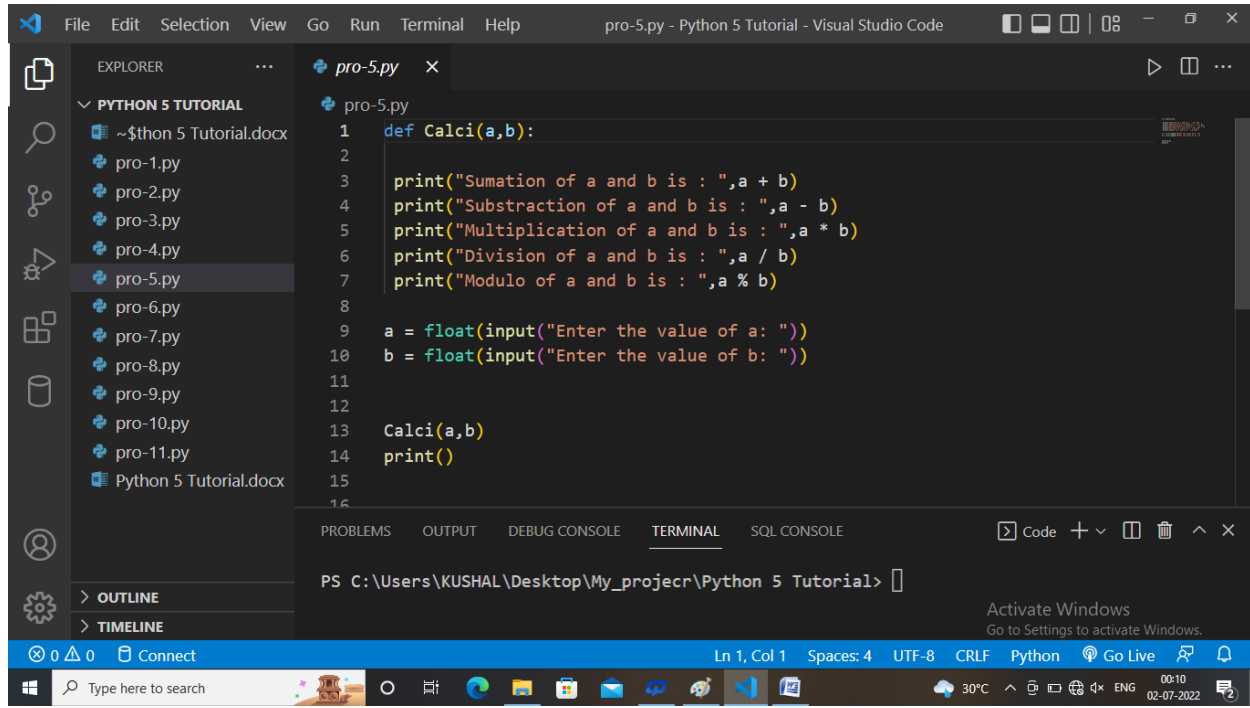
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE

```
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-4.py"
Name is : MEHTA PRALAYKUMAR
Phone number is : 8347038378
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial>
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python Go Live

00:07 02-07-2022

(PRACTICAL – 5):

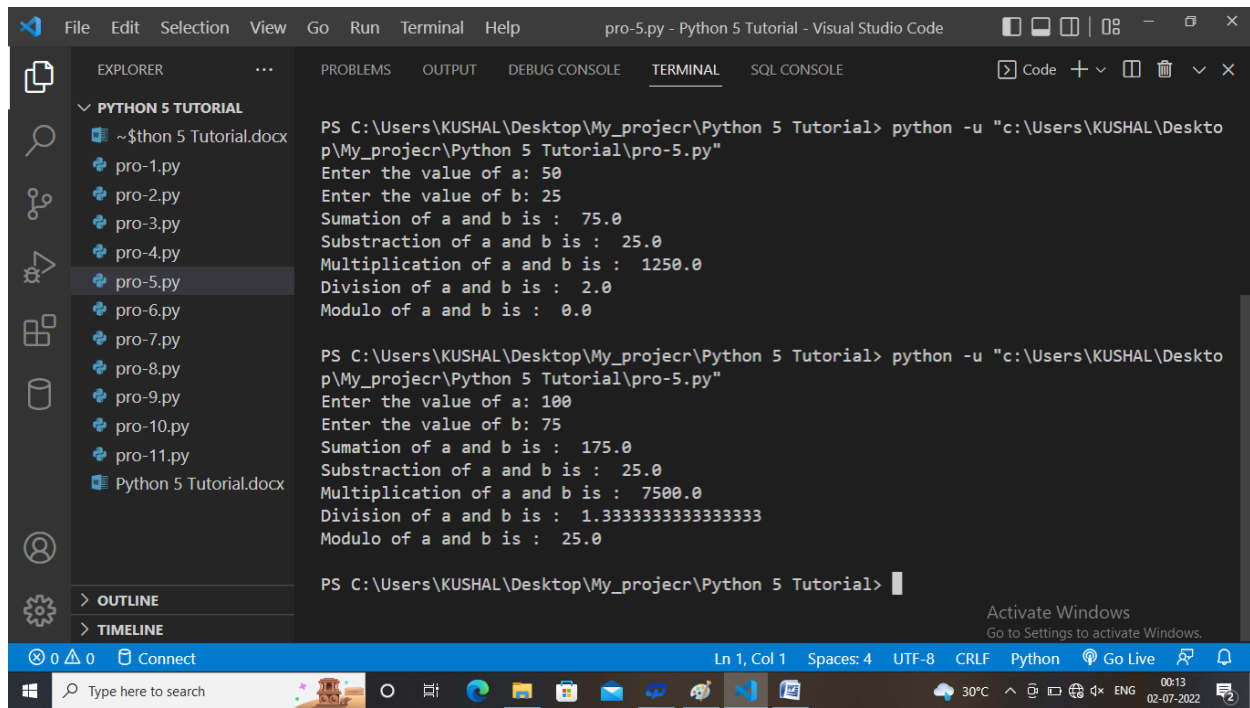


The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying a folder named 'PYTHON 5 TUTORIAL'. The file 'pro-5.py' is selected. The main editor window shows the code for 'pro-5.py'.

```
1 def Calci(a,b):
2
3     print("Sumation of a and b is : ",a + b)
4     print("Substraction of a and b is : ",a - b)
5     print("Multiplication of a and b is : ",a * b)
6     print("Division of a and b is : ",a / b)
7     print("Modulo of a and b is : ",a % b)
8
9     a = float(input("Enter the value of a: "))
10    b = float(input("Enter the value of b: "))
11
12
13    Calci(a,b)
14    print()
15
16
```

The terminal at the bottom shows the command prompt: PS C:\Users\KUSHAL\Desktop\My_projecr\Python 5 Tutorial> .

Output:



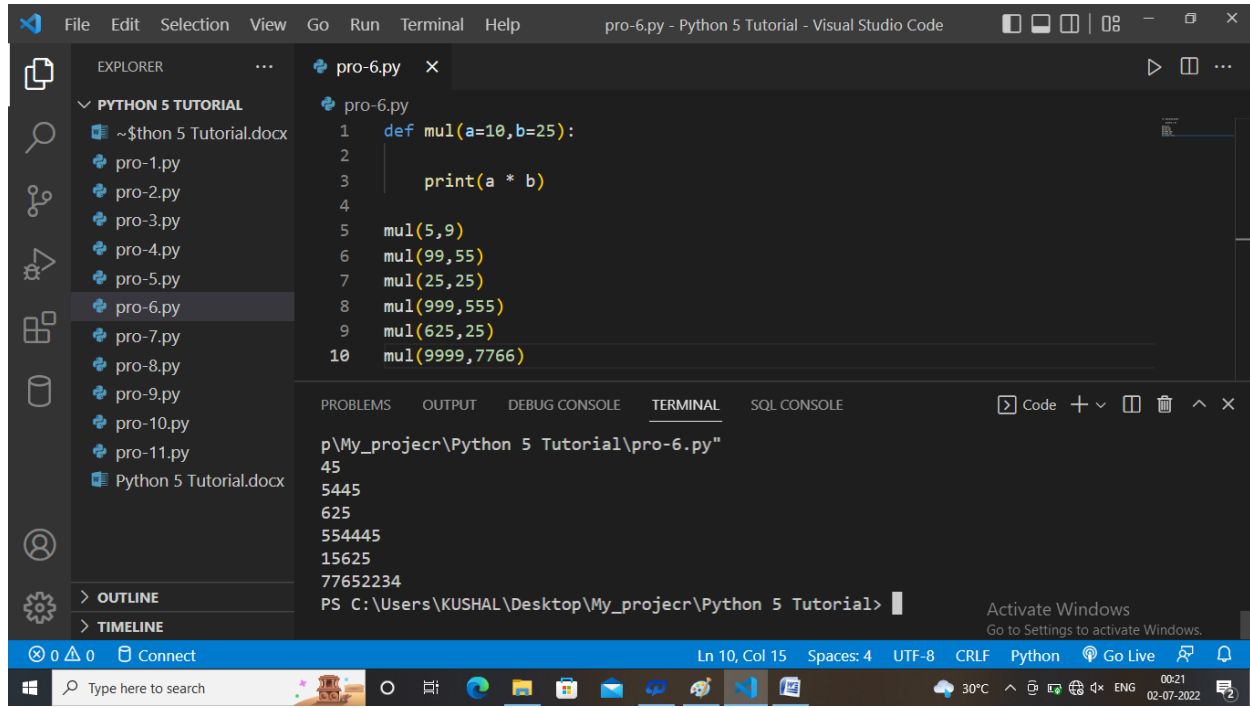
The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying a folder named 'PYTHON 5 TUTORIAL'. The file 'pro-5.py' is selected. The main editor window shows the output of the code.

```
PS C:\Users\KUSHAL\Desktop\My_projecr\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_projecr\Python 5 Tutorial\pro-5.py"
Enter the value of a: 50
Enter the value of b: 25
Sumation of a and b is : 75.0
Substraction of a and b is : 25.0
Multiplication of a and b is : 1250.0
Division of a and b is : 2.0
Modulo of a and b is : 0.0

PS C:\Users\KUSHAL\Desktop\My_projecr\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_projecr\Python 5 Tutorial\pro-5.py"
Enter the value of a: 100
Enter the value of b: 75
Sumation of a and b is : 175.0
Substraction of a and b is : 25.0
Multiplication of a and b is : 7500.0
Division of a and b is : 1.3333333333333333
Modulo of a and b is : 25.0

PS C:\Users\KUSHAL\Desktop\My_projecr\Python 5 Tutorial>
```

(PRACTICAL – 6):



The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a project named 'PYTHON 5 TUTORIAL'. The file 'pro-6.py' is selected. The editor window shows the following Python code:

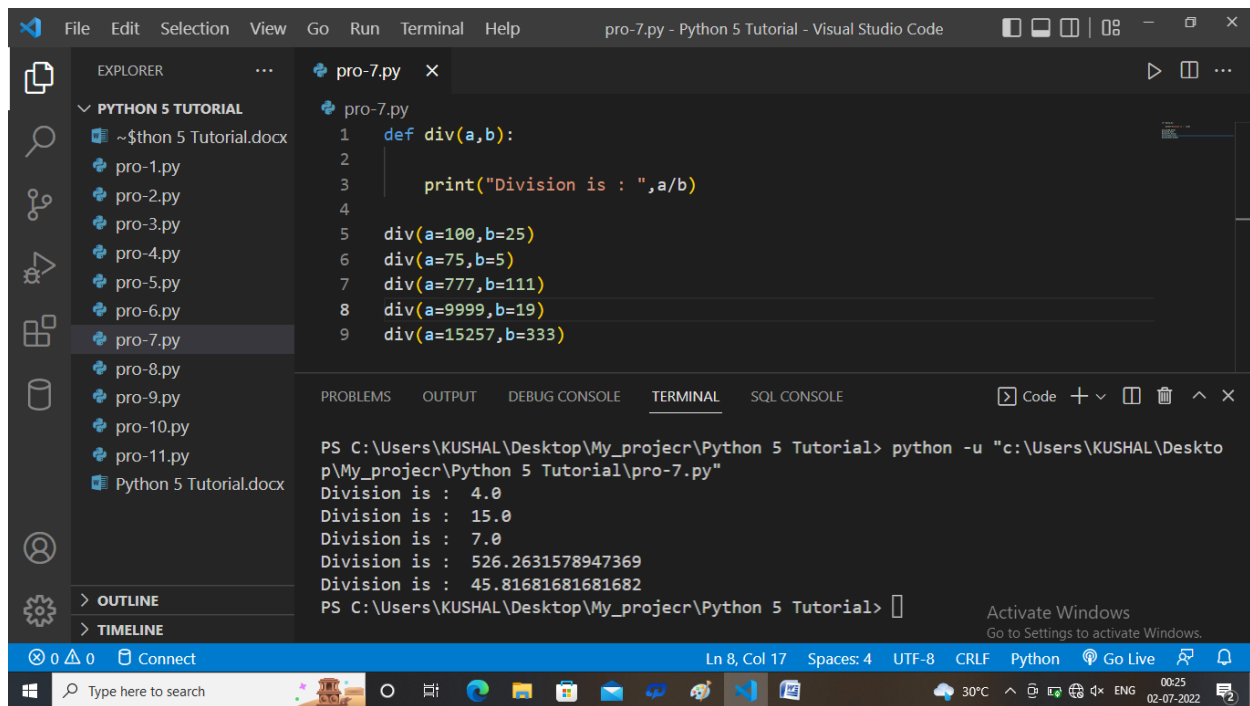
```
1 def mul(a=10,b=25):
2
3     print(a * b)
4
5 mul(5,9)
6 mul(99,55)
7 mul(25,25)
8 mul(999,555)
9 mul(625,25)
10 mul(9999,7766)
```

The terminal window at the bottom shows the execution of the script, displaying the output of the multiplication function for each call:

```
p\My_project\Python 5 Tutorial\pro-6.py"
45
5445
625
554445
15625
77652234
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial>
```

The status bar at the bottom indicates the current line is 10, column 15, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows the date and time as 02-07-2022, 00:21.

(PRACTICAL – 7):



The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a project named 'PYTHON 5 TUTORIAL'. The file 'pro-7.py' is selected. The editor window shows the following Python code:

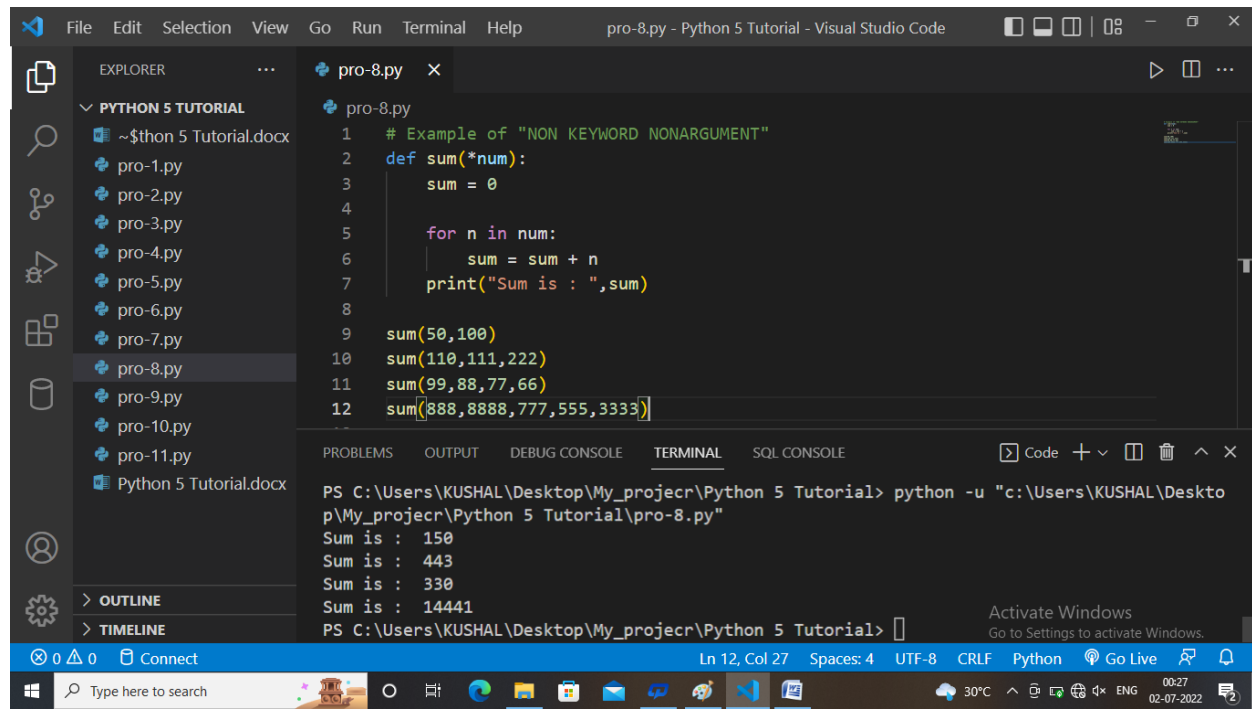
```
1 def div(a,b):
2
3     print("Division is : ",a/b)
4
5 div(a=100,b=25)
6 div(a=75,b=5)
7 div(a=777,b=111)
8 div(a=9999,b=19)
9 div(a=15257,b=333)
```

The terminal window at the bottom shows the execution of the script, displaying the output of the division function for each call:

```
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-7.py"
Division is : 4.0
Division is : 15.0
Division is : 7.0
Division is : 526.2631578947369
Division is : 45.81681681681682
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial>
```

The status bar at the bottom indicates the current line is 8, column 17, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows the date and time as 02-07-2022, 00:25.

(PRACTICAL – 8):

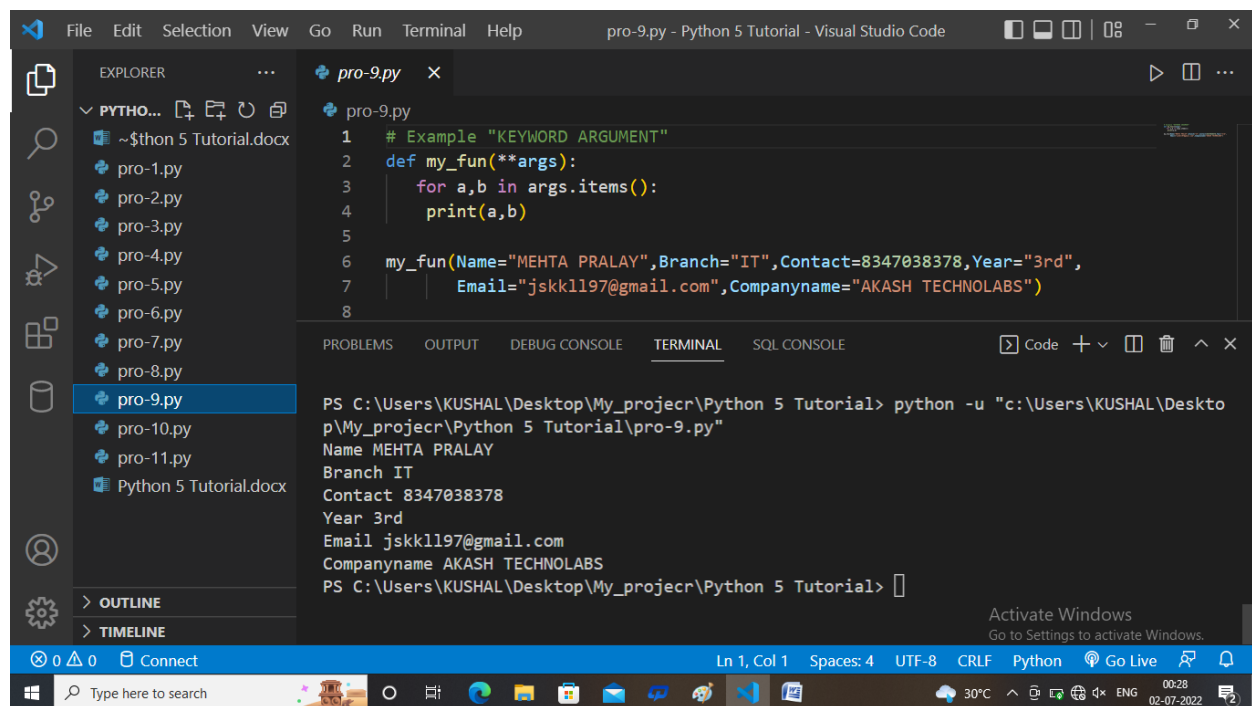


The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a directory named 'PYTHON 5 TUTORIAL'. The file 'pro-8.py' is selected. The main editor window shows the code for 'pro-8.py', which is a function 'sum(*num)' that calculates the sum of a variable number of arguments. The terminal at the bottom shows the command 'python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-8.py"' being executed, resulting in four lines of output: 'Sum is : 150', 'Sum is : 443', 'Sum is : 330', and 'Sum is : 14441'.

```
1 # Example of "NON KEYWORD NONARGUMENT"
2 def sum(*num):
3     sum = 0
4
5     for n in num:
6         sum = sum + n
7     print("Sum is : ",sum)
8
9 sum(50,100)
10 sum(110,111,222)
11 sum(99,88,77,66)
12 sum(888,8888,777,555,3333)
```

```
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-8.py"
Sum is : 150
Sum is : 443
Sum is : 330
Sum is : 14441
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial>
```

(PRACTICAL – 9):

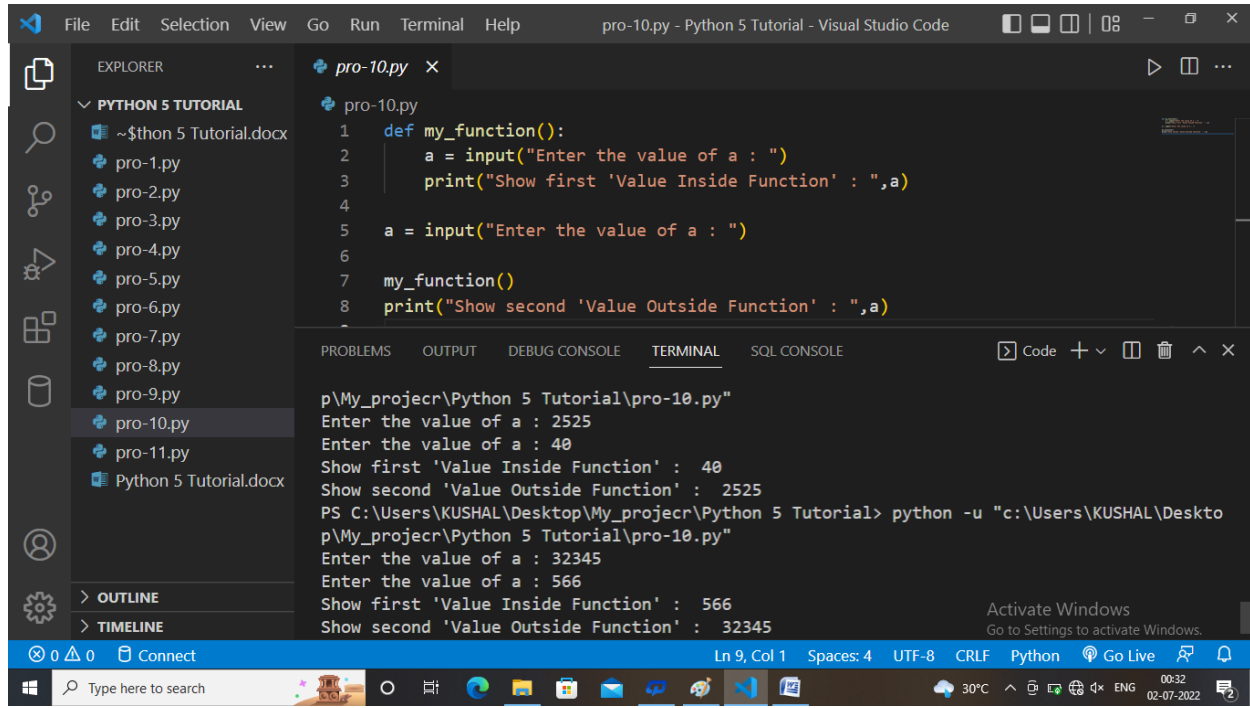


The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a directory named 'PYTHON 5 TUTORIAL'. The file 'pro-9.py' is selected. The main editor window shows the code for 'pro-9.py', which is a function 'my_fun(**args)' that prints the key-value pairs of a dictionary. The terminal at the bottom shows the command 'python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-9.py"' being executed, resulting in the output: 'Name MEHTA PRALAY', 'Branch IT', 'Contact 8347038378', 'Year 3rd', 'Email jskkl197@gmail.com', and 'Companyname AKASH TECHNOLOGIES'.

```
1 # Example "KEYWORD ARGUMENT"
2 def my_fun(**args):
3     for a,b in args.items():
4         print(a,b)
5
6 my_fun(Name="MEHTA PRALAY",Branch="IT",Contact=8347038378,Year="3rd",
7       Email="jskkl197@gmail.com",Companyname="AKASH TECHNOLOGIES")
8
```

```
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-9.py"
Name MEHTA PRALAY
Branch IT
Contact 8347038378
Year 3rd
Email jskkl197@gmail.com
Companyname AKASH TECHNOLOGIES
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial>
```

(PRACTICAL – 10):



The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'PYTHON 5 TUTORIAL'. The file 'pro-10.py' is selected. The editor displays the following Python code:

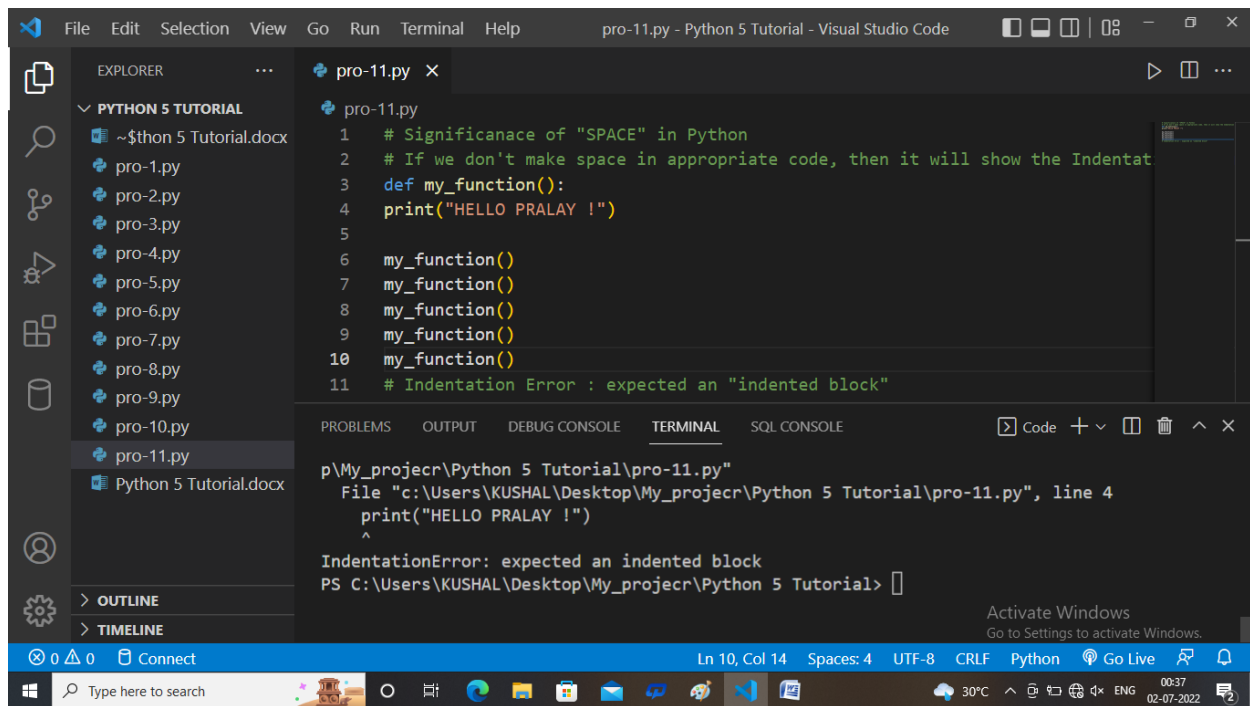
```
1 def my_function():
2     a = input("Enter the value of a : ")
3     print("Show first 'Value Inside Function' : ",a)
4
5 a = input("Enter the value of a : ")
6
7 my_function()
8 print("Show second 'Value Outside Function' : ",a)
```

The terminal at the bottom shows the execution of the script:

```
p\My_project\Python 5 Tutorial\pro-10.py"
Enter the value of a : 2525
Enter the value of a : 40
Show first 'Value Inside Function' : 40
Show second 'Value Outside Function' : 2525
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial> python -u "c:\Users\KUSHAL\Desktop\
p\My_project\Python 5 Tutorial\pro-10.py"
Enter the value of a : 32345
Enter the value of a : 566
Show first 'Value Inside Function' : 566
Show second 'Value Outside Function' : 32345
```

The status bar at the bottom indicates the file is at line 9, column 1, with 4 spaces, using UTF-8 encoding and CRLF line endings. The system tray shows the date as 02-07-2022.

(PRACTICAL – 11):



The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a folder named 'PYTHON 5 TUTORIAL'. The file 'pro-11.py' is selected. The editor displays the following Python code:

```
1 # Significanace of "SPACE" in Python
2 # If we don't make space in appropriate code, then it will show the Indentat
3 def my_function():
4     print("HELLO PRALAY !")
5
6 my_function()
7 my_function()
8 my_function()
9 my_function()
10 my_function()
11 # Indentation Error : expected an "indented block"
```

The terminal at the bottom shows the execution of the script, which results in an error:

```
p\My_project\Python 5 Tutorial\pro-11.py"
File "c:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial\pro-11.py", line 4
    print("HELLO PRALAY !")
    ^
IndentationError: expected an indented block
PS C:\Users\KUSHAL\Desktop\My_project\Python 5 Tutorial>
```

The status bar at the bottom indicates the file is at line 10, column 14, with 4 spaces, using UTF-8 encoding and CRLF line endings. The system tray shows the date as 02-07-2022.



THE END