
 Marwadi University Marwadi Chandarana Group 	Marwadi University Faculty of Engineering & Technology Department of Information and Communication Technology	
Subject: Programming With Python (01CT1309)	Aim: Write a program to demonstrate different number datatypes in python.	
Experiment No: 01	Date:7-7-2025	Enrollment No:9240133108

Aim: Write a program to demonstrate different number datatypes in python.

IDE:

Data types in Python refer to classifying or categorizing data objects based on their characteristics and behavior. They determine the type of values variables can hold and specify the operations that can be performed on those values. For instance, Python has several built-in data types, including numeric types (int, float, complex), string (str), Boolean (bool), and collection types (list, tuple, dict, set). Moreover, each data type has its own set of properties, methods, and behaviors that allow programmers to manipulate and process data effectively in their programs.

Built-in Data Types in Python

Built-in data types in Python are fundamental data structures provided by the Python programming language. Pre-defined and available for use without requiring any additional libraries or modules. Python offers several built-in data types, including:

Numeric Data Types: Numeric data types in Python are used to represent numerical values. Python provides three primary numeric datatypes in python:



- Integer (int): Integers are whole numbers without any decimal points. They can be positive or negative.
- Floating-Point (float): Floating-point numbers represent decimal values. They can be positive or negative and may contain a decimal point.
- Complex (complex): People use complex numbers to represent numbers with a real and imaginary part. You write them in the form of $a + bj$, where a is the real part and b is the imaginary part.

String Data Type(str): Represents a sequence of characters enclosed in single quotes (‘ ’) or double quotes (“ ”), such as “Hello, World!”, ‘Python’.

Boolean Data Type(bool): Represents either True or False, used for logical operations and conditions.

Collection Data Types:

- list: Represents an ordered and mutable collection of items, enclosed in square brackets [].
- tuple: Represents an ordered and immutable collection of items, enclosed in parentheses ().
- dict: Represents a collection of key-value pairs enclosed in curly braces { } with unique keys.
- set: Represents an unordered and mutable collection of unique elements, enclosed in curly braces { } or using the set() function.

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Results:

Attach the screenshot of each task along with the output

Numeric Data Types

Python Code:

```
num1 = 10
print(num1)
print("Datatype of num1 is", type(num1))
```

```
num2 = 2.5
print(num2)
print("Datatype of num1 is", type(num2))
```



```
num3 = 2+6j
print(num3)
print("Datatype of num1 is", type(num3))
```

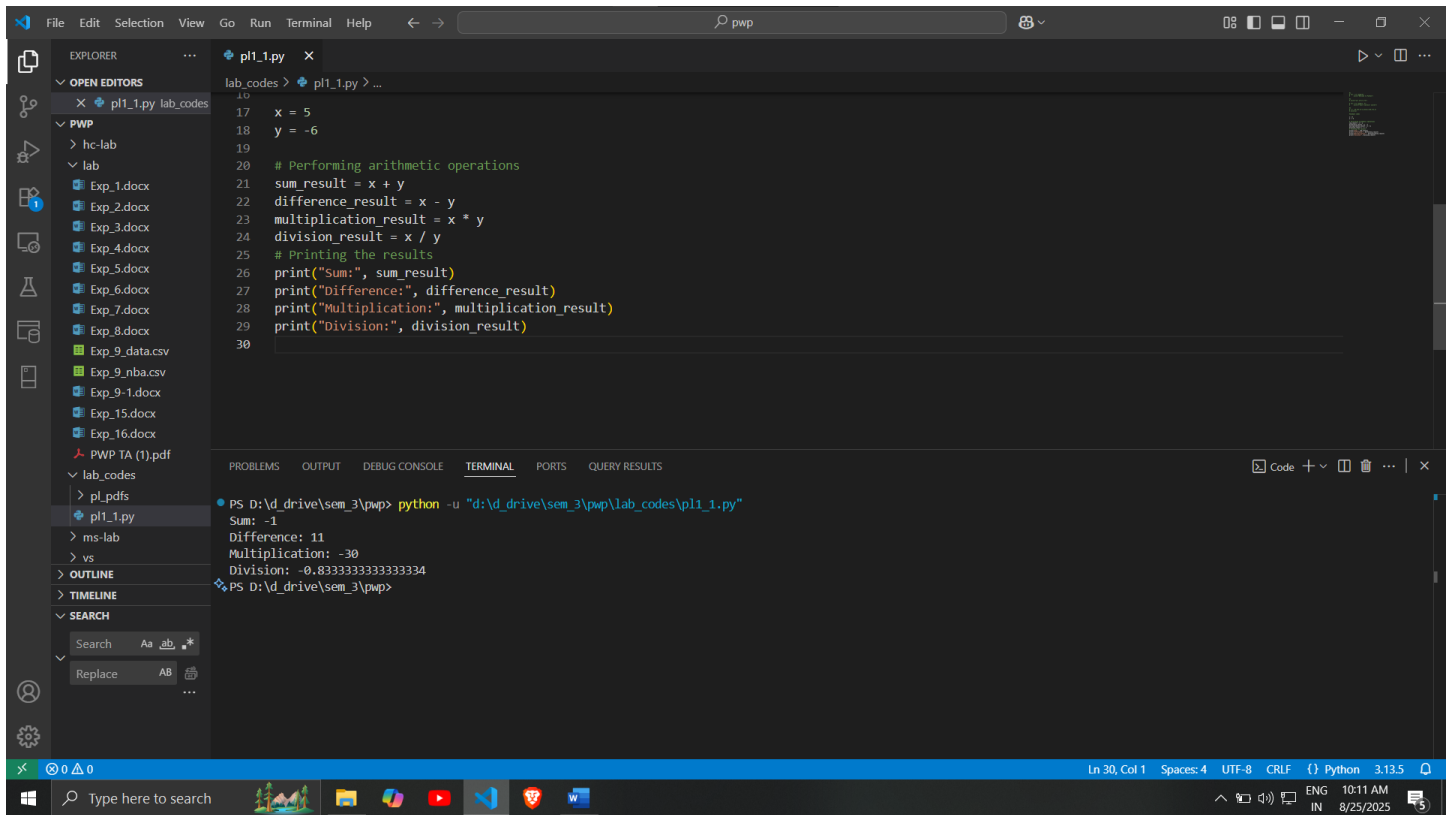
Example 1

```
x = 5
y = -6
```

```
# Performing arithmetic operations
sum_result = x + y
difference_result = x - y
multiplication_result = x * y
division_result = x / y
# Printing the results
print("Sum:", sum_result)
print("Difference:", difference_result)
print("Multiplication:", multiplication_result)
print("Division:", division_result)
```

Output:

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```

10
17 x = 5
18 y = -6
19
20 # Performing arithmetic operations
21 sum_result = x + y
22 difference_result = x - y
23 multiplication_result = x * y
24 division_result = x / y
25 # Printing the results
26 print("Sum:", sum_result)
27 print("Difference:", difference_result)
28 print("Multiplication:", multiplication_result)
29 print("Division:", division_result)
30

```

```

PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"
Sum: -1
Difference: 11
Multiplication: -30
Division: -0.8333333333333334
PS D:\d_drive\sem_3\pwp>

```



Example 2:

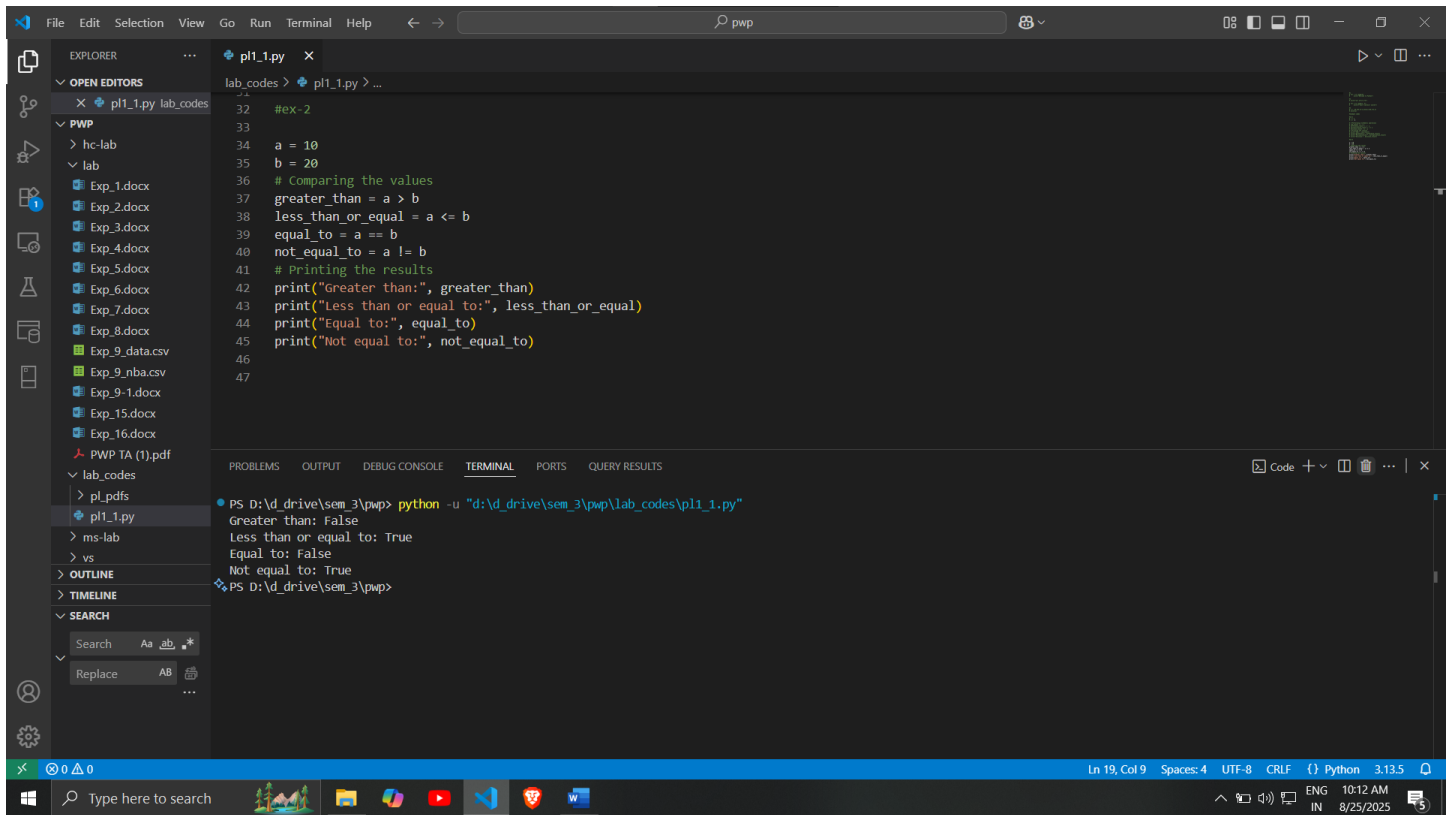
```

a = 10
b = 20
# Comparing the values
greater_than = a > b
less_than_or_equal = a <= b
equal_to = a == b
not_equal_to = a != b
# Printing the results
print("Greater than:", greater_than)
print("Less than or equal to:", less_than_or_equal)
print("Equal to:", equal_to)
print("Not equal to:", not_equal_to)

```

Output

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```

32 #ex-2
33
34 a = 10
35 b = 20
36 # Comparing the values
37 greater_than = a > b
38 less_than_or_equal = a <= b
39 equal_to = a == b
40 not_equal_to = a != b
41 # Printing the results
42 print("Greater than:", greater_than)
43 print("Less than or equal to:", less_than_or_equal)
44 print("Equal to:", equal_to)
45 print("Not equal to:", not_equal_to)
46
47

```

```

PS D:\drive\sem_3\pwp> python -u "d:\drive\sem_3\pwp\lab_codes\pl1_1.py"
Greater than: False
Less than or equal to: True
Equal to: False
Not equal to: True
PS D:\drive\sem_3\pwp>

```

Example 3

x = 3.14

y = 2.5

Performing arithmetic operations

sum_result = x + y

difference_result = x - y

multiplication_result = x * y

division_result = x / y

Printing the results


print("Sum:", sum_result)

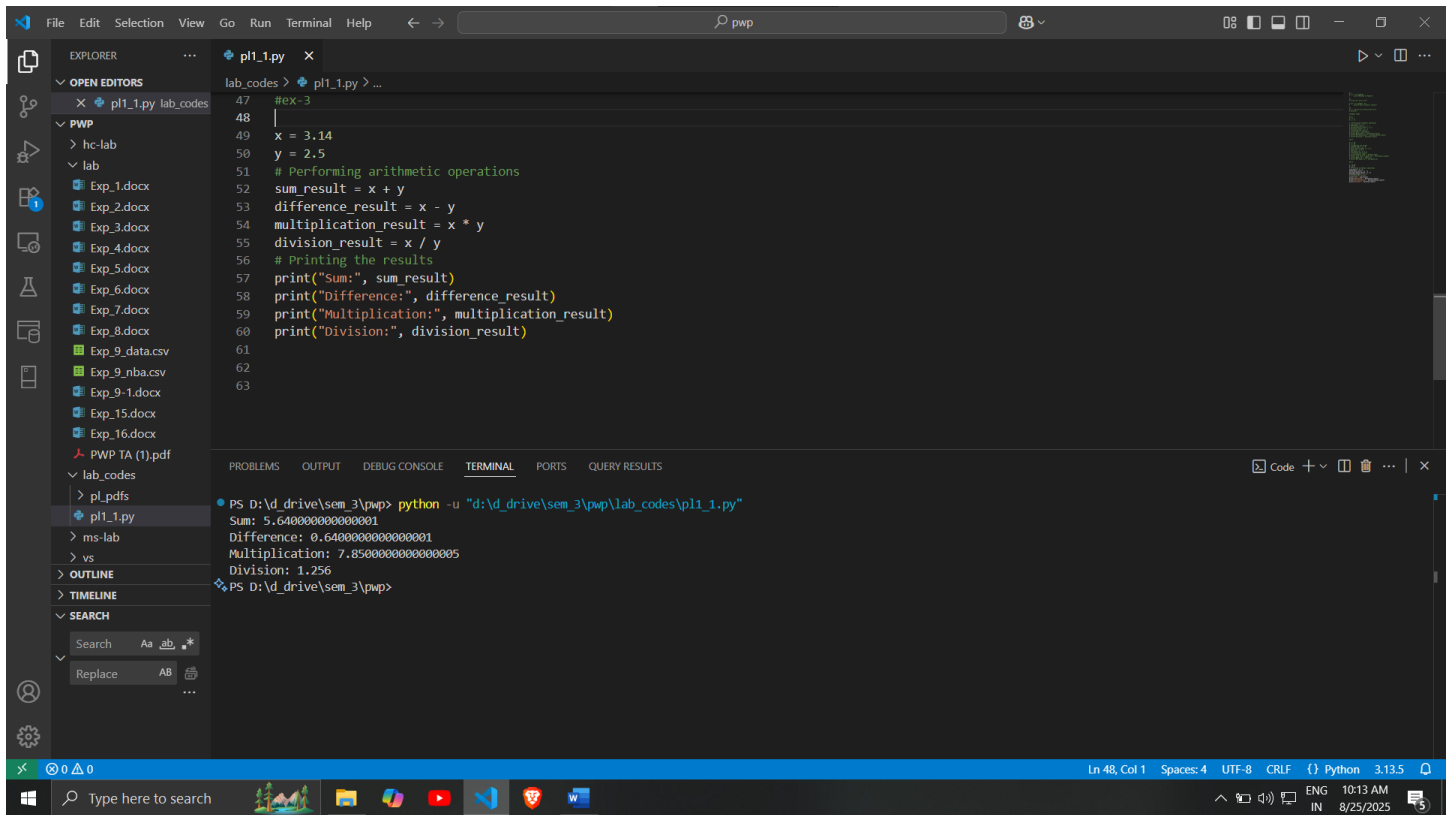
print("Difference:", difference_result)

print("Multiplication:", multiplication_result)

print("Division:", division_result)

Output

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```

47 #ex-3
48
49 x = 3.14
50 y = 2.5
51 # Performing arithmetic operations
52 sum_result = x + y
53 difference_result = x - y
54 multiplication_result = x * y
55 division_result = x / y
56 # Printing the results
57 print("Sum:", sum_result)
58 print("Difference:", difference_result)
59 print("Multiplication:", multiplication_result)
60 print("Division:", division_result)
61
62
63

```

```

PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"
Sum: 5.640000000000001
Difference: 0.6400000000000001
Multiplication: 7.8500000000000005
Division: 1.256
PS D:\d_drive\sem_3\pwp>

```


Example 4

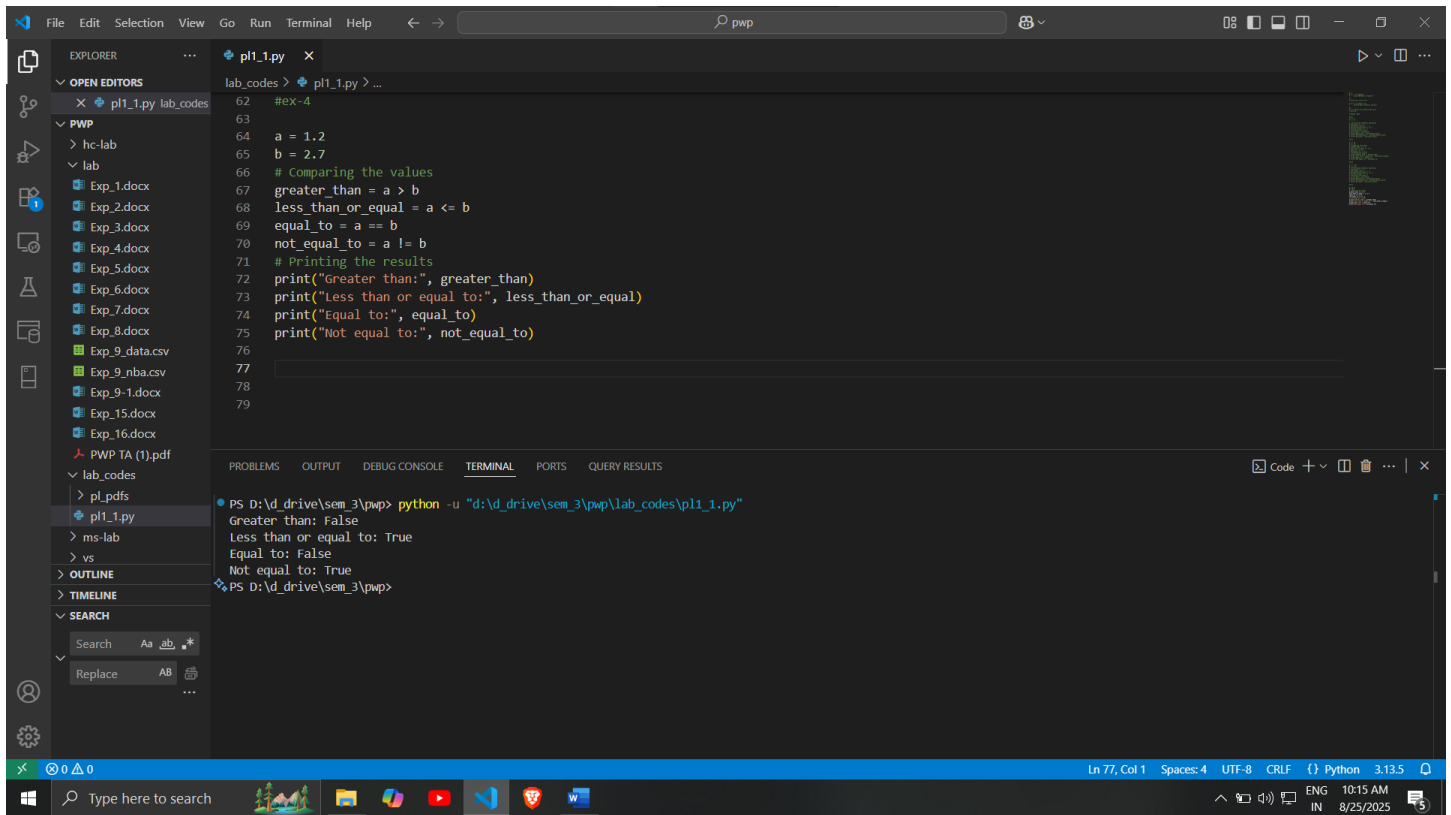
```

a = 1.2
b = 2.7
# Comparing the values
greater_than = a > b
less_than_or_equal = a <= b
equal_to = a == b
not_equal_to = a != b
# Printing the results
print("Greater than:", greater_than)
print("Less than or equal to:", less_than_or_equal)
print("Equal to:", equal_to)
print("Not equal to:", not_equal_to)

```

Output

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```

62 #ex-4
63
64 a = 1.2
65 b = 2.7
66 # Comparing the values
67 greater_than = a > b
68 less_than_or_equal = a <= b
69 equal_to = a == b
70 not_equal_to = a != b
71 # Printing the results
72 print("Greater than:", greater_than)
73 print("Less than or equal to:", less_than_or_equal)
74 print("Equal to:", equal_to)
75 print("Not equal to:", not_equal_to)
76
77
78
79

```

```

PS D:\drive\sem_3\pwp> python -u "d:\drive\sem_3\pwp\lab_codes\pl1_1.py"
Greater than: False
Less than or equal to: True
Equal to: False
Not equal to: True
PS D:\drive\sem_3\pwp>

```



Example 5

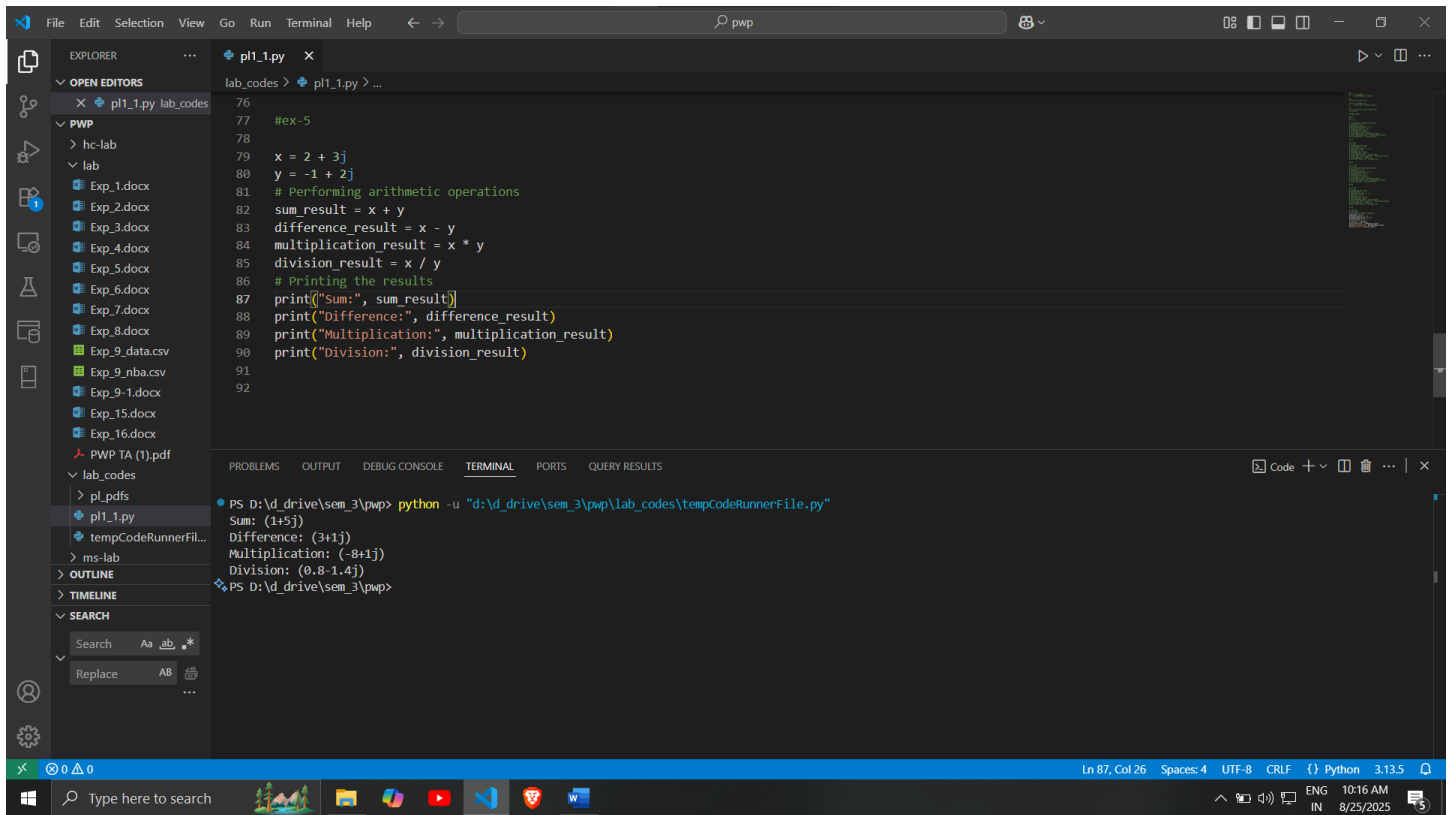
```

x = 2 + 3j
y = -1 + 2j
# Performing arithmetic operations
sum_result = x + y
difference_result = x - y
multiplication_result = x * y
division_result = x / y
# Printing the results
print("Sum:", sum_result)
print("Difference:", difference_result)
print("Multiplication:", multiplication_result)
print("Division:", division_result)

```

Output

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```

76
77 #ex-5
78
79 x = 2 + 3j
80 y = -1 + 2j
81 # Performing arithmetic operations
82 sum_result = x + y
83 difference_result = x - y
84 multiplication_result = x * y
85 division_result = x / y
86 # Printing the results
87 print("Sum:", sum_result)
88 print("Difference:", difference_result)
89 print("Multiplication:", multiplication_result)
90 print("Division:", division_result)
91
92

```

```

PS D:\drive\sem_3\pwp> python -u "d:\drive\sem_3\pwp\lab_codes\tempCodeRunnerFile.py"
Sum: (1+5j)
Difference: (3+1j)
Multiplication: (-8+1j)
Division: (0.8-1.4j)
PS D:\drive\sem_3\pwp>

```



Example 6

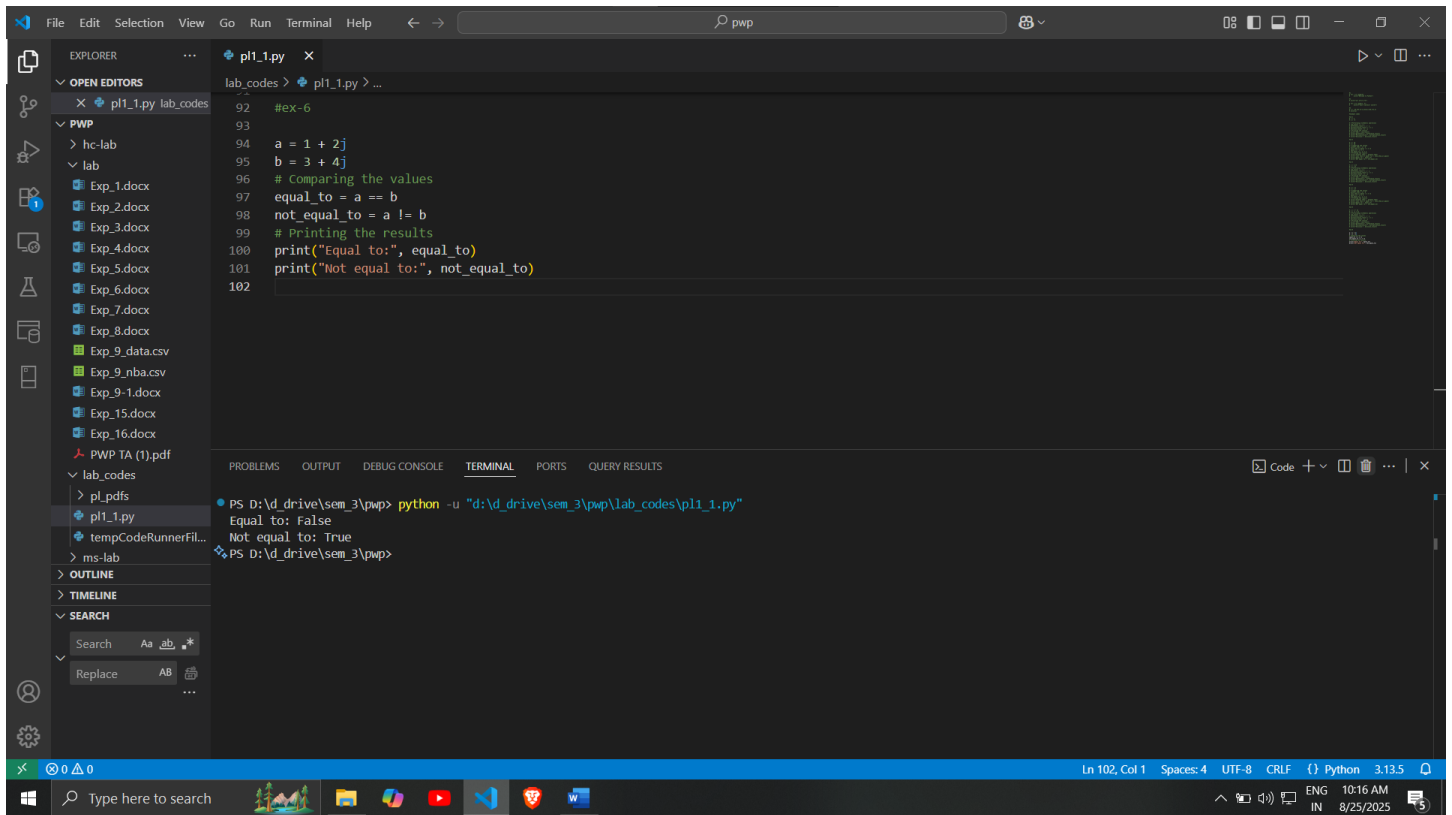
```

a = 1 + 2j
b = 3 + 4j
# Comparing the values
equal_to = a == b
not_equal_to = a != b
# Printing the results
print("Equal to:", equal_to)
print("Not equal to:", not_equal_to)

```

Output

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The screenshot shows a Visual Studio Code editor window with a Python file named `pl1_1.py` open. The code in the file is as follows:

```

92 #ex-6
93
94 a = 1 + 2j
95 b = 3 + 4j
96 # comparing the values
97 equal_to = a == b
98 not_equal_to = a != b
99 # Printing the results
100 print("Equal to:", equal_to)
101 print("Not equal to:", not_equal_to)
102

```

The terminal at the bottom shows the command `python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"` being executed, with the following output:

```

PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"
Equal to: False
Not equal to: True
PS D:\d_drive\sem_3\pwp>

```



Example 7

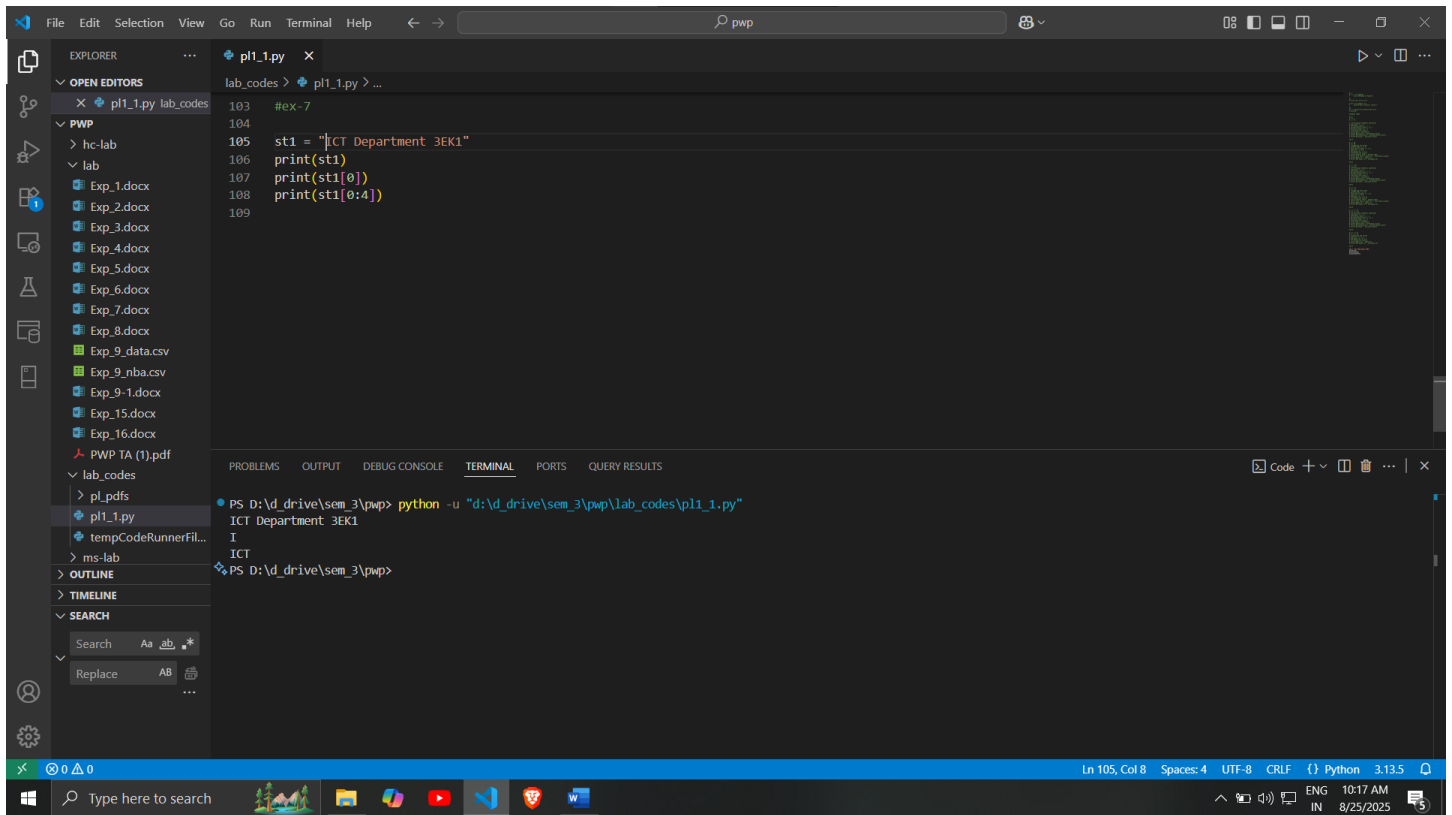
```

st1 = "ICT Department 3EK1"
print(st1)
print(st1[0])
print(st1[0:4])

```

Output

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```

lab_codes > pl1_1.py > ...
103 #ex-7
104
105 st1 = "ICT Department 3EK1"
106 print(st1)
107 print(st1[0])
108 print(st1[0:4])
109

```

```

PS D:\drive\sem_3\pwp> python -u "d:\drive\sem_3\pwp\lab_codes\pl1_1.py"
ICT Department 3EK1
I
ICT
PS D:\drive\sem_3\pwp>

```



Example 8

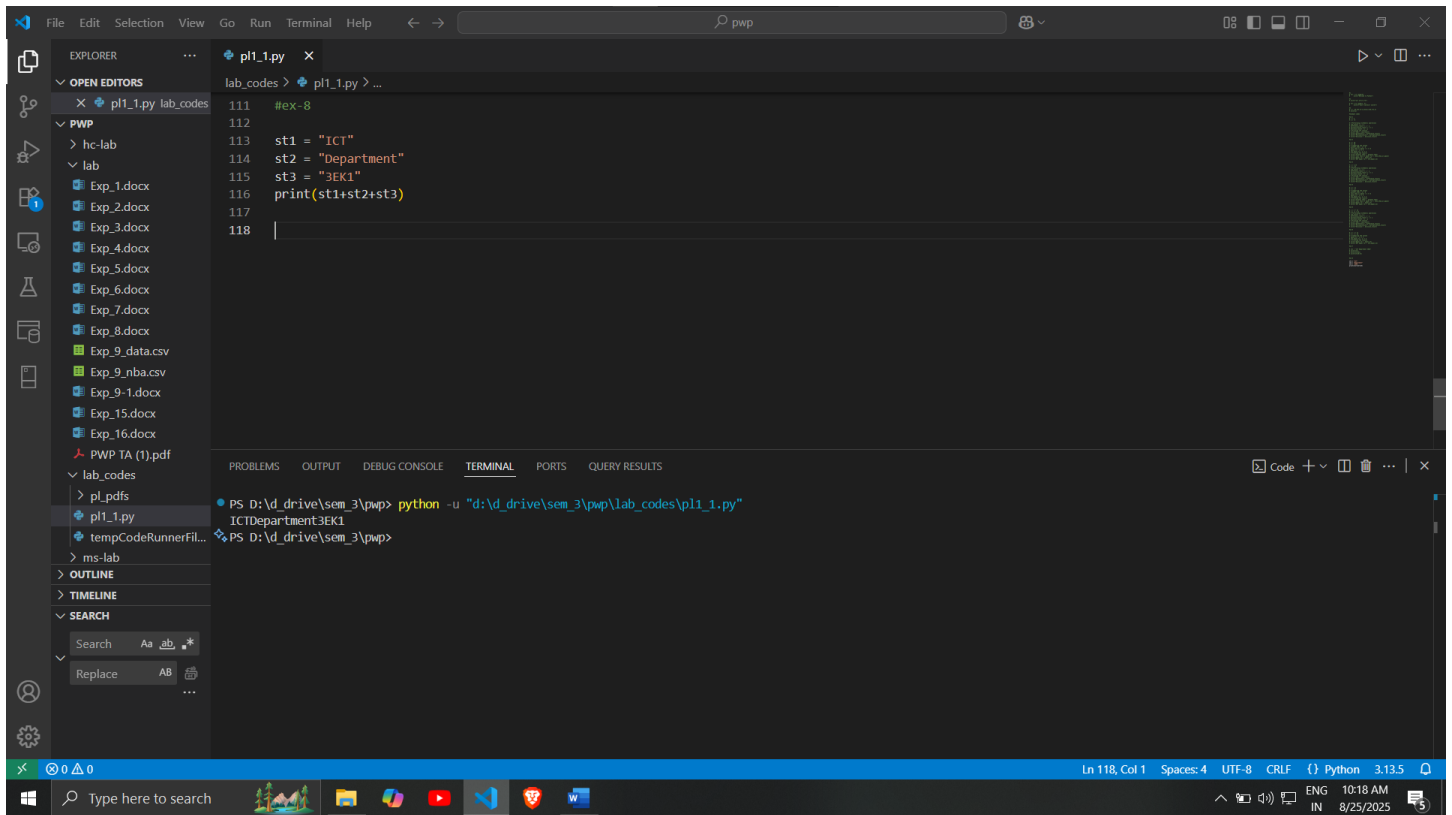
```

st1 = "ICT"
st2 = "Department"
st3 = "3EK1"
print(st1+st2+st3)

```

Output

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The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a file tree with folders like 'PWP' and 'lab_codes'. The main editor window shows a Python file named 'pl1_1.py' with the following code:

```

111 #ex-8
112
113 st1 = "ICT"
114 st2 = "Department"
115 st3 = "3EK1"
116 print(st1+st2+st3)
117
118

```

The TERMINAL panel at the bottom shows the command prompt output:

```

PS D:\drive\sem_3\pwp> python -u "d:\drive\sem_3\pwp\lab_codes\pl1_1.py"
ICTDepartment3EK1
PS D:\drive\sem_3\pwp>



```

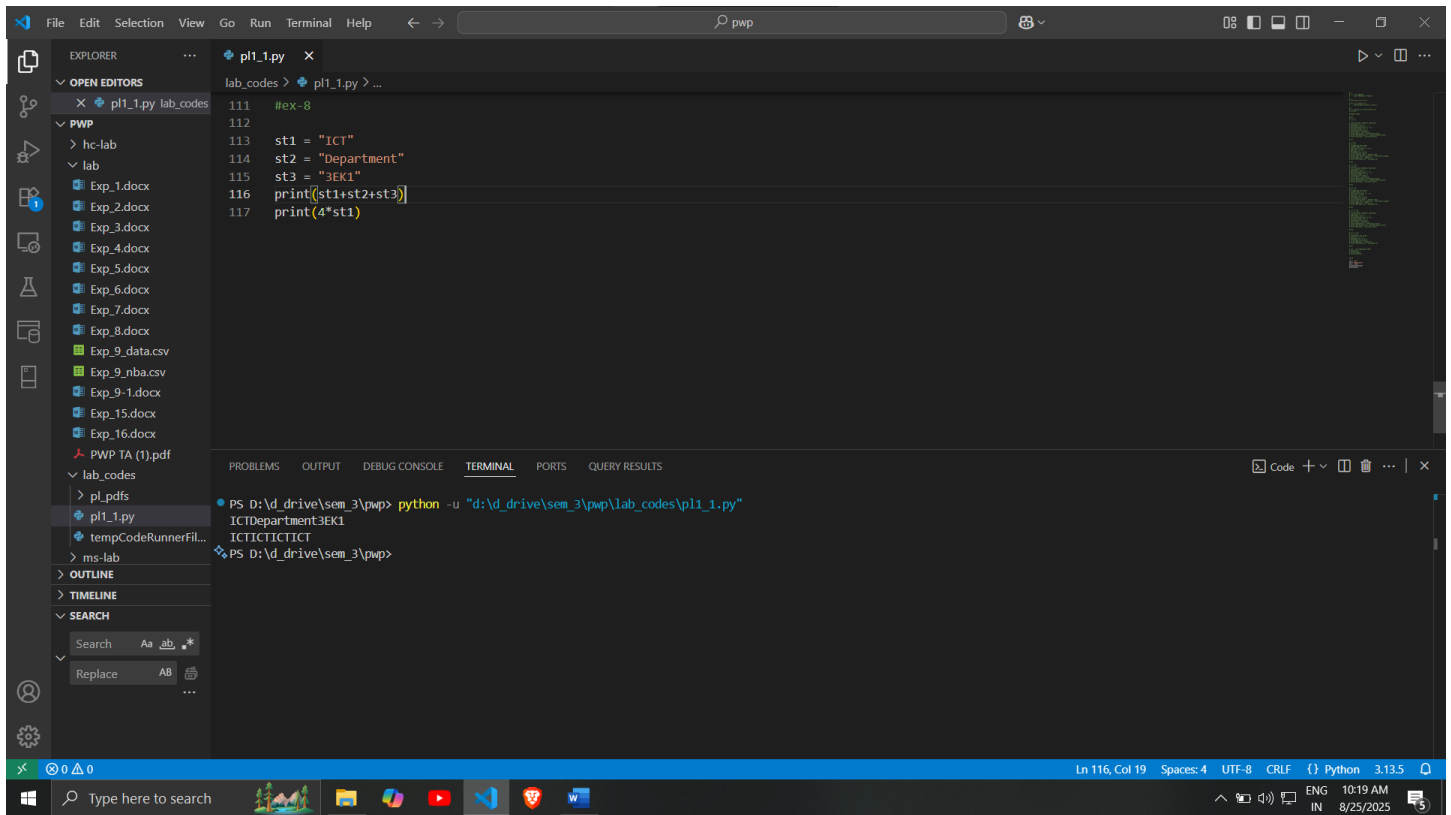
The status bar at the bottom indicates the current position is Line 118, Column 1, with 4 spaces, using UTF-8 encoding and CRLF line endings. The Python version is 3.13.5.

Repetitions: Python allows us to repeat a given string with the help of ‘ * ’ operator.

```
print(4*st1)
```

Output

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The screenshot shows a Visual Studio Code editor with a file explorer on the left containing various experiment files. The main editor window displays a Python script named `pl1_1.py` with the following code:

```

111 #ex-8
112
113 st1 = "ICT"
114 st2 = "Department"
115 st3 = "3EK1"
116 print(st1+st2+st3)
117 print(4*st1)

```

The bottom panel shows the terminal output after running the script:

```

PS D:\drive\sem_3\pwp> python -u "d:\drive\sem_3\pwp\lab_codes\pl1_1.py"
ICTDepartment3EK1
ICTICTICTICT
PS D:\drive\sem_3\pwp>

```



Membership: The Membership operator helps to check whether a given character is present in the string or not with the help of two operators in and not in. In and not in operator returns the Boolean value True or False.

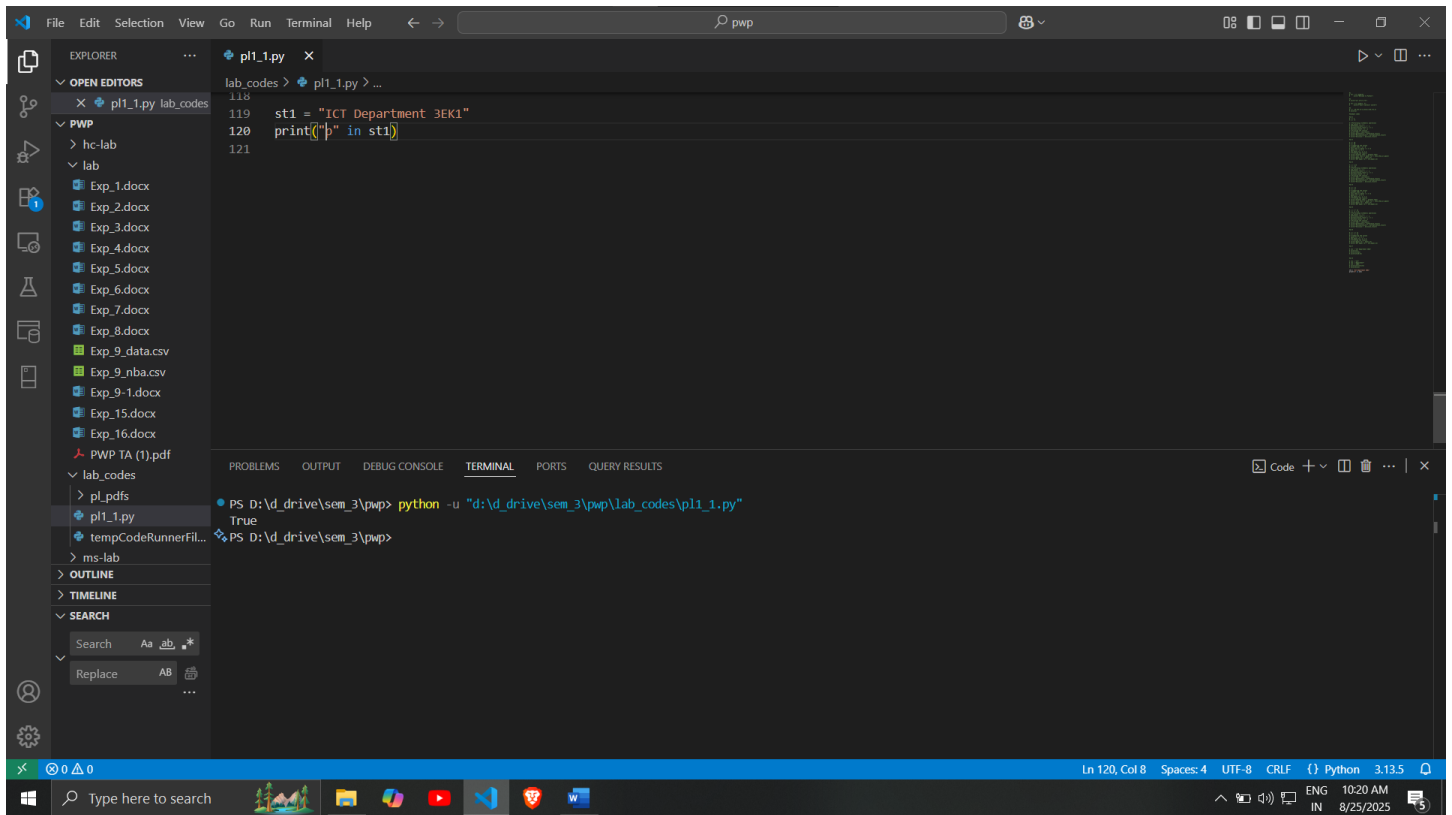
```

st1 = "ICT Department 3EK1"
print("p" in st1)

```

Output

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The screenshot shows the Visual Studio Code interface. The Explorer panel on the left displays a file tree with folders like 'PWP' and 'lab_codes'. The main editor window shows a Python file named 'pl1_1.py' with the following code:

```

118
119 st1 = "ICT Department 3EK1"
120 print("b" in st1)
121

```

The TERMINAL panel at the bottom shows the command prompt output:

```

PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"
True
PS D:\d_drive\sem_3\pwp>



```

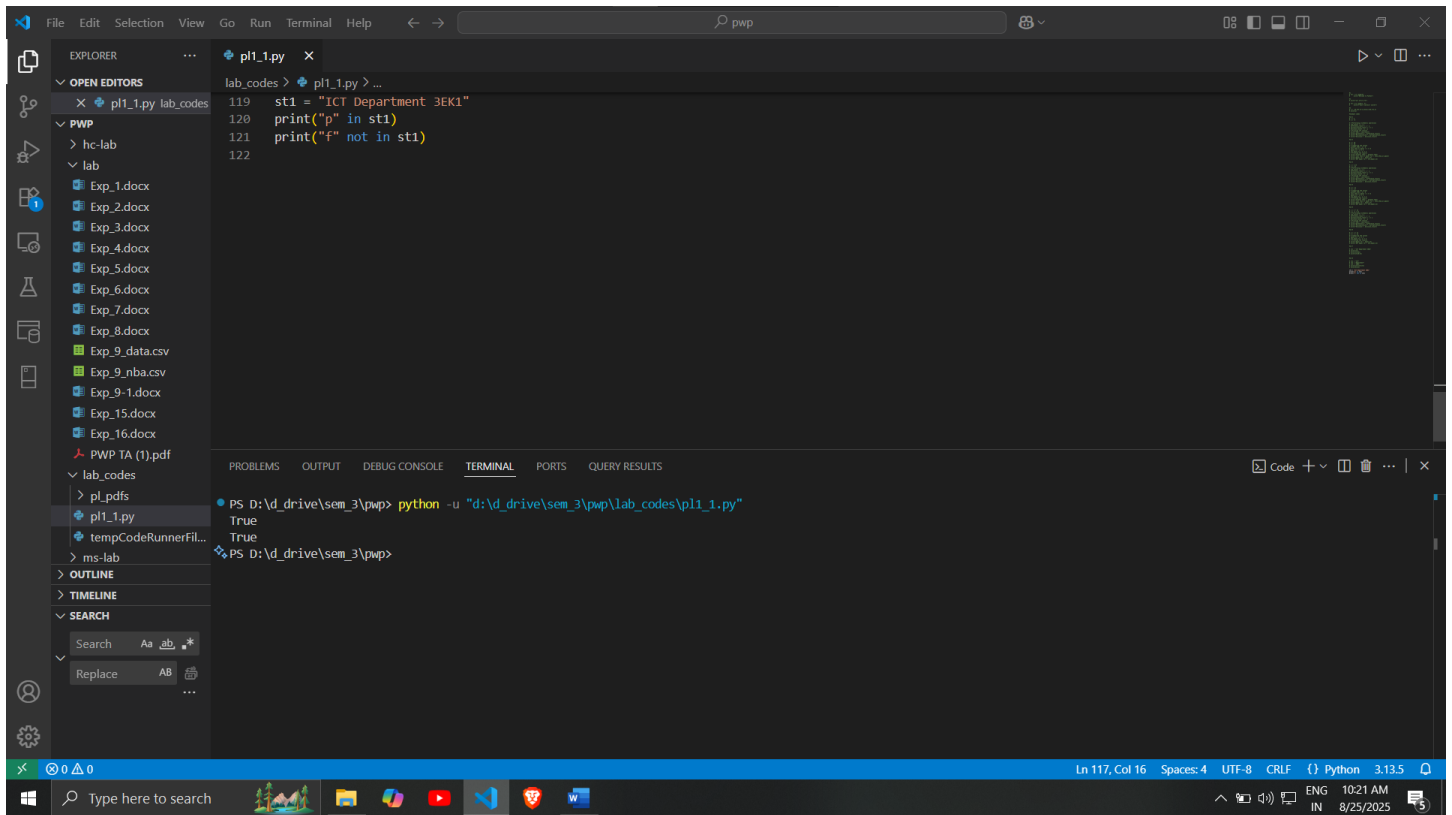
The status bar at the bottom indicates the current line and column (Ln 120, Col 8), encoding (UTF-8), and the Python interpreter version (3.13.5).

```

print("f" not in st1)

```

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Output

Collection Data Types



Collection data types in Python are used to store and organize multiple values into a single entity. Python provides several built-in collection data types, including lists, tuples, dictionaries, and sets.

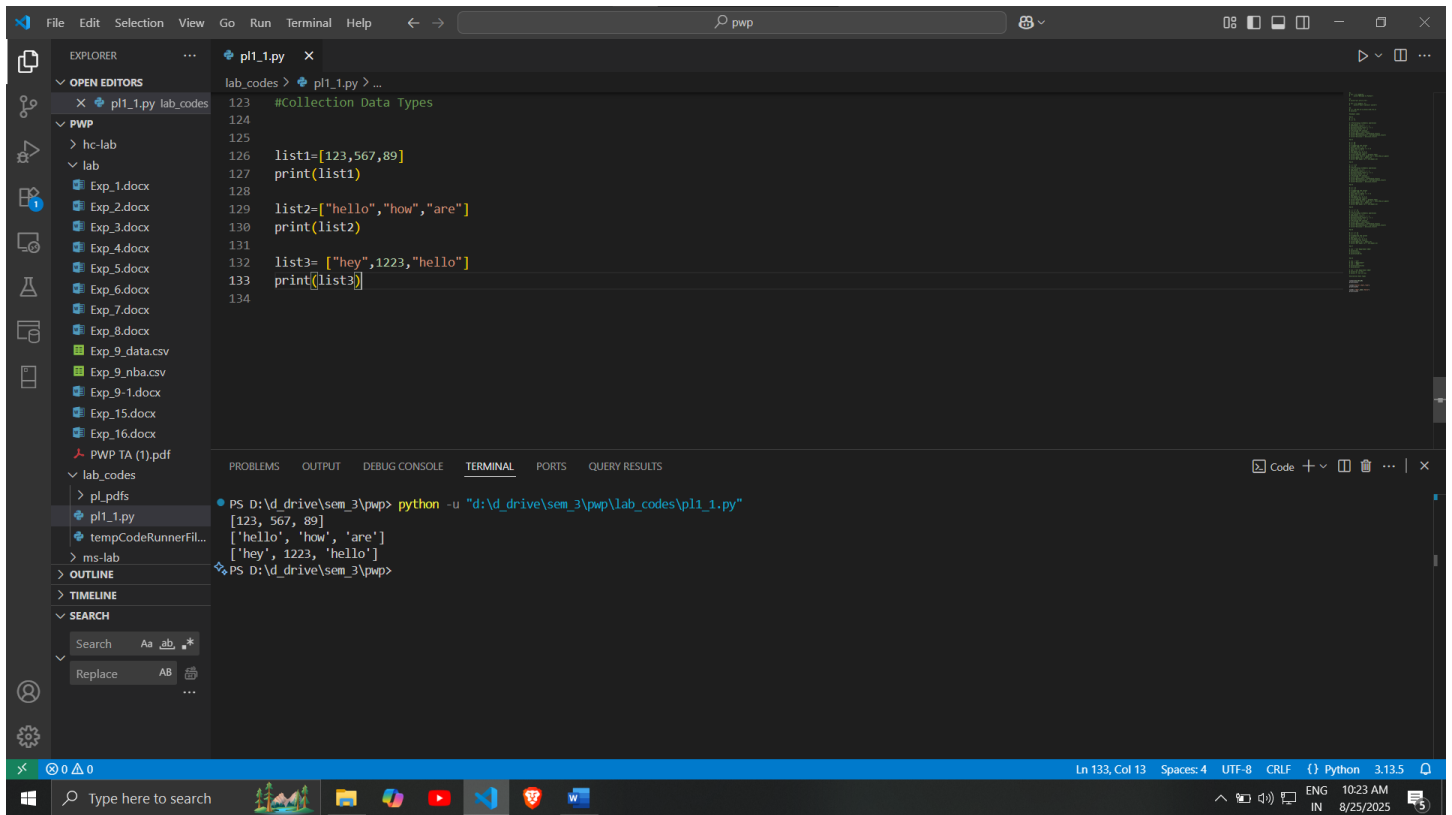
```
list1=[123,567,89]
print(list1)
```

```
list2=["hello","how","are"]
print(list2)
```

```
list3= ["hey",1223,"hello"]
print(list3)
```

Output

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The screenshot shows the Visual Studio Code interface with a Python file named `pl1_1.py` open. The code defines three lists: `list1` (containing integers), `list2` (containing strings), and `list3` (containing a mix of strings and an integer). The terminal output shows the execution of the script, displaying the contents of each list as printed.

```

lab_codes > pl1_1.py > ...
123 #Collection Data Types
124
125
126 list1=[123,567,89]
127 print(list1)
128
129 list2=["hello","how","are"]
130 print(list2)
131
132 list3= ["hey",1223,"hello"]
133 print(list3)
134

```

```

PS D:\drive\sem_3\pwp> python -u "d:\drive\sem_3\pwp\lab_codes\pl1_1.py"
[123, 567, 89]
['hello', 'how', 'are']
['hey', 1223, 'hello']



```

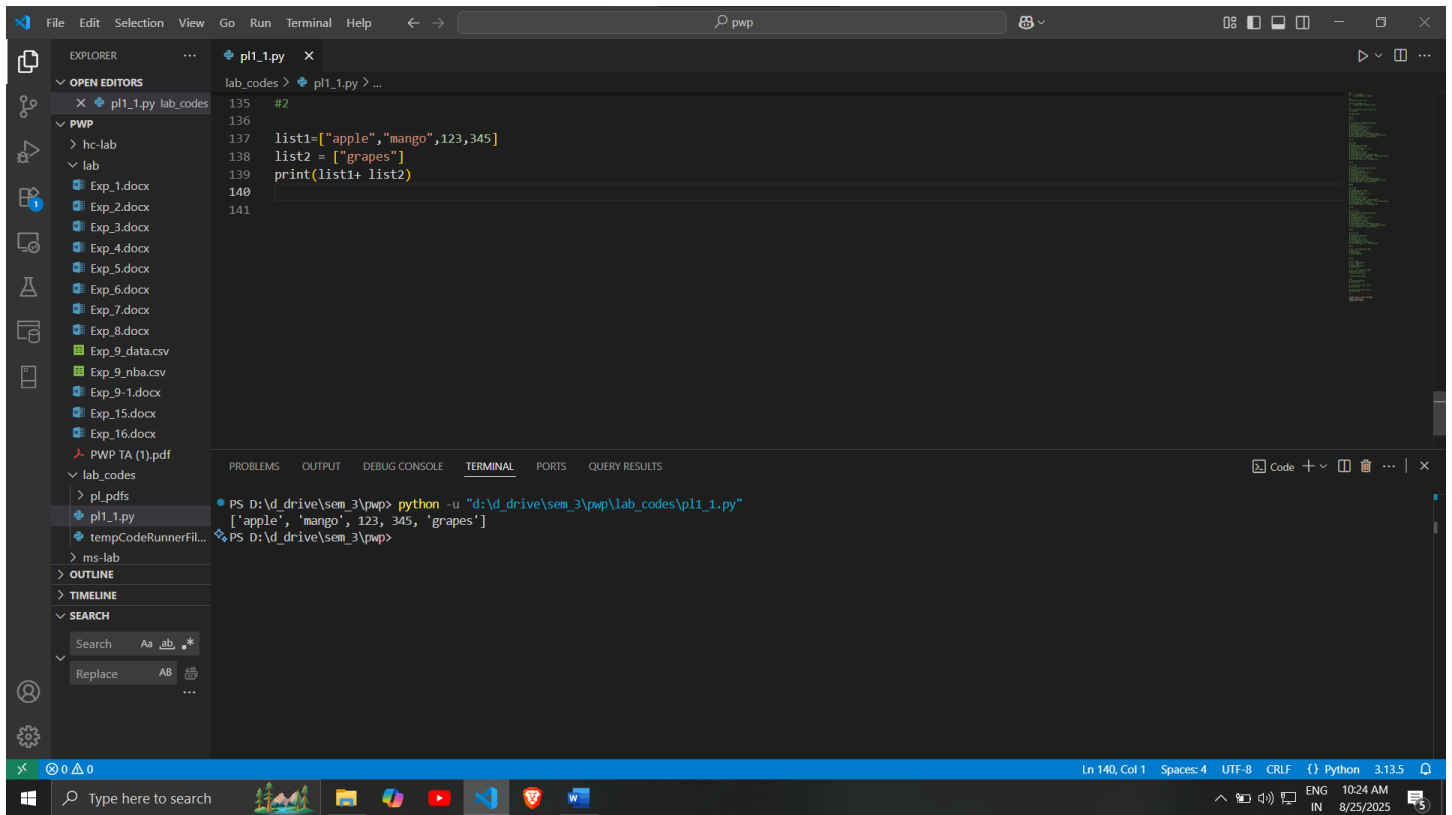
```

list1=["apple","mango",123,345]
list2 = ["grapes"]
print(list1+ list2)

```

Output

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```

135 #2
136
137 list1=["apple","mango",123,345]
138 list2 = ["grapes"]
139 print(list1+ list2)
140
141

```

```

PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"
['apple', 'mango', 123, 345, 'grapes']
PS D:\d_drive\sem_3\pwp>



```

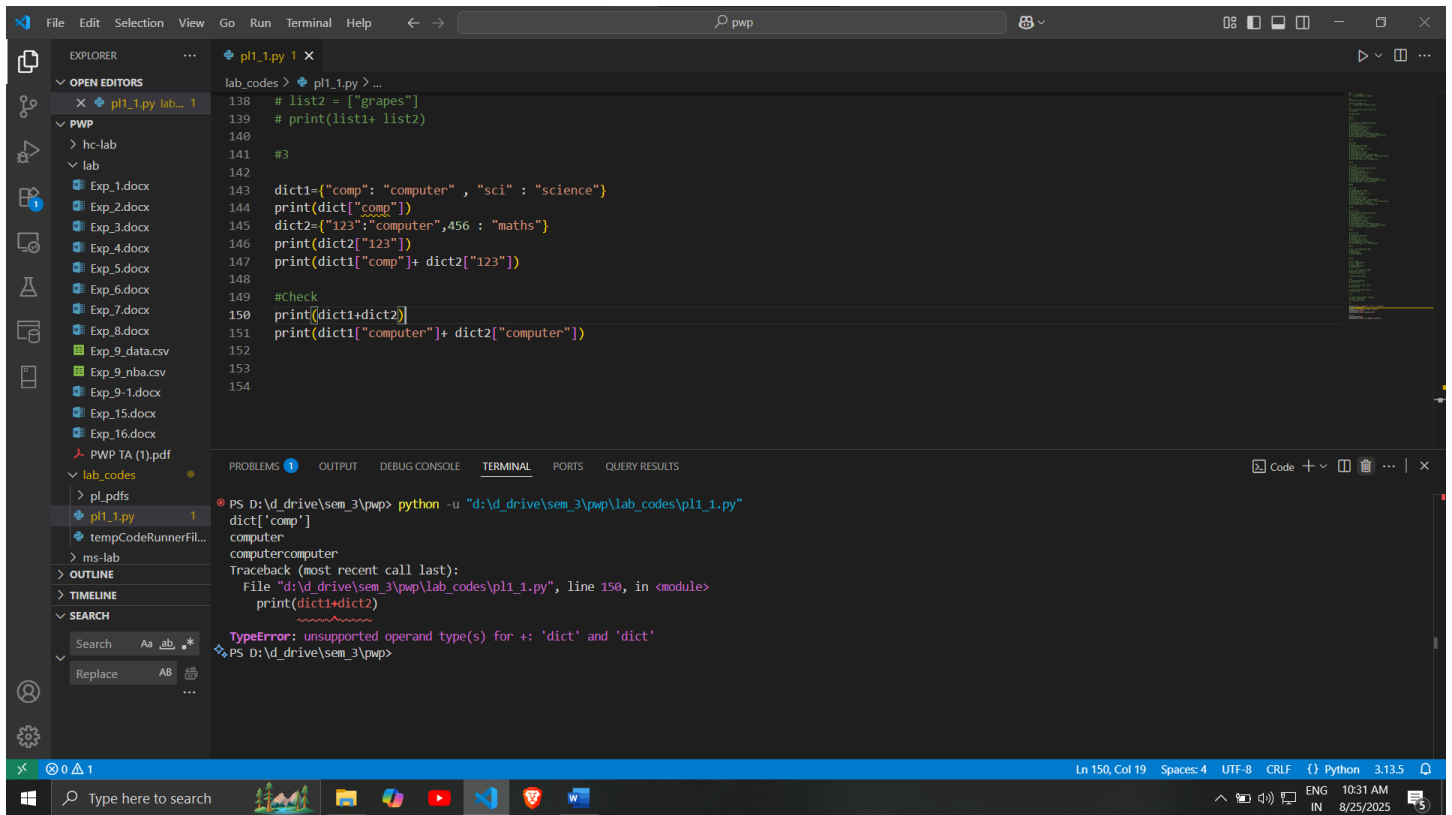
```
dict1={"comp": "computer", "sci": "science"}
print(dict["comp"])
dict2={"123": "computer", 456 : "maths"}
print(dict2["123"])
print(dict1["comp"]+ dict2["123"])
```

Check

```
print(dict1+ dict2)
print(dict1["computer"]+ dict2["computer"])
```

Output

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```

lab_codes > pl1_1.py > ...
138 # list2 = ["grapes"]
139 # print(list1+ list2)
140
141 #3
142
143 dict1={"comp": "computer", "sci": "science"}
144 print(dict1["comp"])
145 dict2={"123":"computer",456 : "maths"}
146 print(dict2["123"])
147 print(dict1["comp"]+ dict2["123"])
148
149 #Check
150 print(dict1+dict2)
151 print(dict1["computer"]+ dict2["computer"])
152
153
154

```

```

PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"
dict1['comp']
computer
computercomputer
Traceback (most recent call last):
  File "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py", line 150, in <module>
    print(dict1+dict2)
TypeError: unsupported operand type(s) for +: 'dict' and 'dict'
PS D:\d_drive\sem_3\pwp>

```

```

my_set = {1, 2, 3, 4, 5}
print(my_set)



```

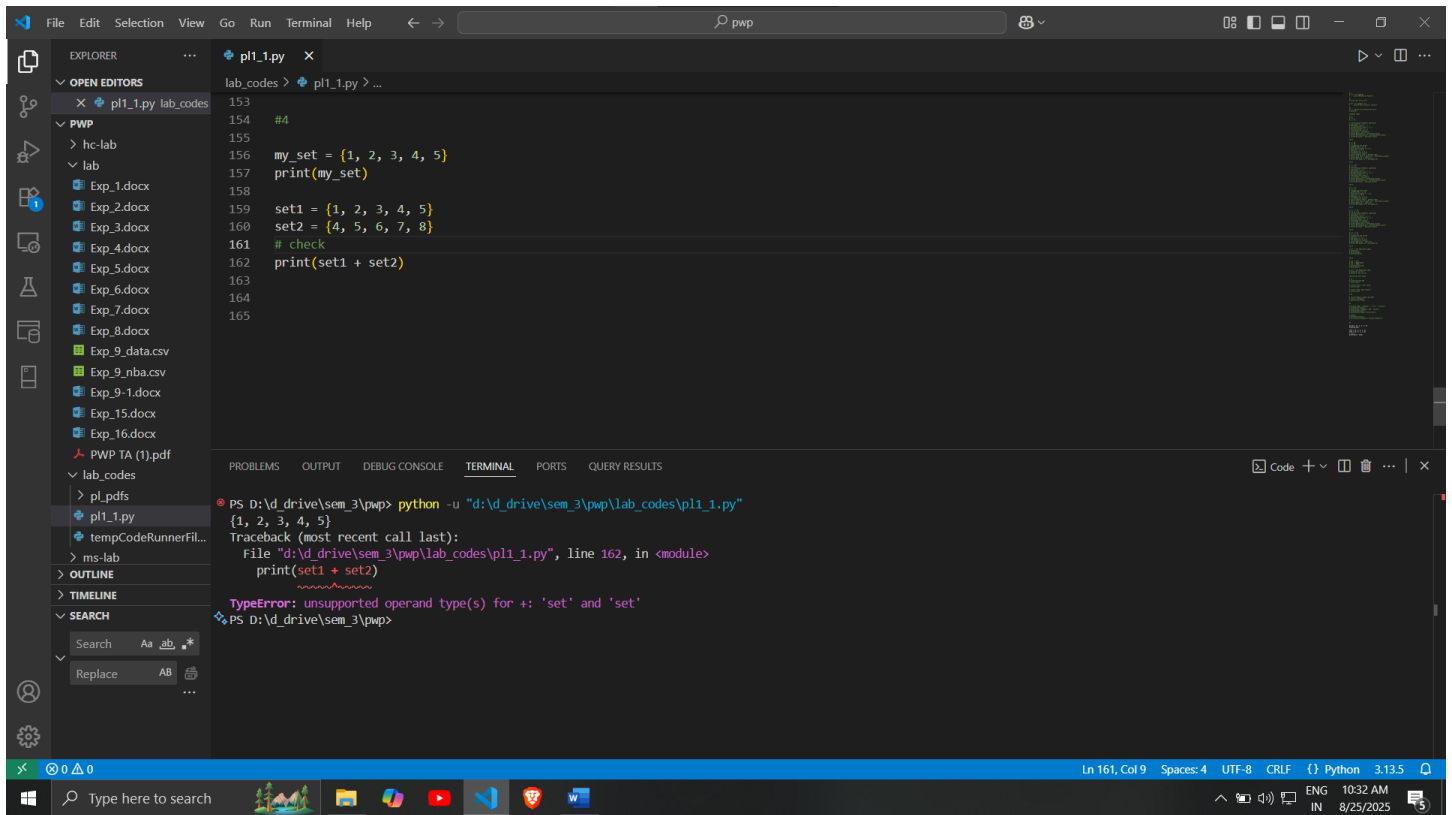
```

set1 = {1, 2, 3, 4, 5}
set2 = {4, 5, 6, 7, 8}
check
print(set1 + set2)

```

Output

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The screenshot shows a Visual Studio Code editor window with a file explorer on the left and a terminal at the bottom. The file explorer shows a project structure with folders like 'lab_codes' and 'pl1_1.py'. The main editor area displays the contents of 'pl1_1.py', which contains the following code:

```

153
154 #4
155
156 my_set = (1, 2, 3, 4, 5)
157 print(my_set)
158
159 set1 = {1, 2, 3, 4, 5}
160 set2 = {4, 5, 6, 7, 8}
161 # check
162 print(set1 + set2)
163
164
165

```



The terminal at the bottom shows the command `python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"` being executed. The output shows the first set, followed by a `TypeError: unsupported operand type(s) for +: 'set' and 'set'` error. The error message indicates that the `print` statement on line 162 is attempting to add two sets, which is not a valid operation in Python.

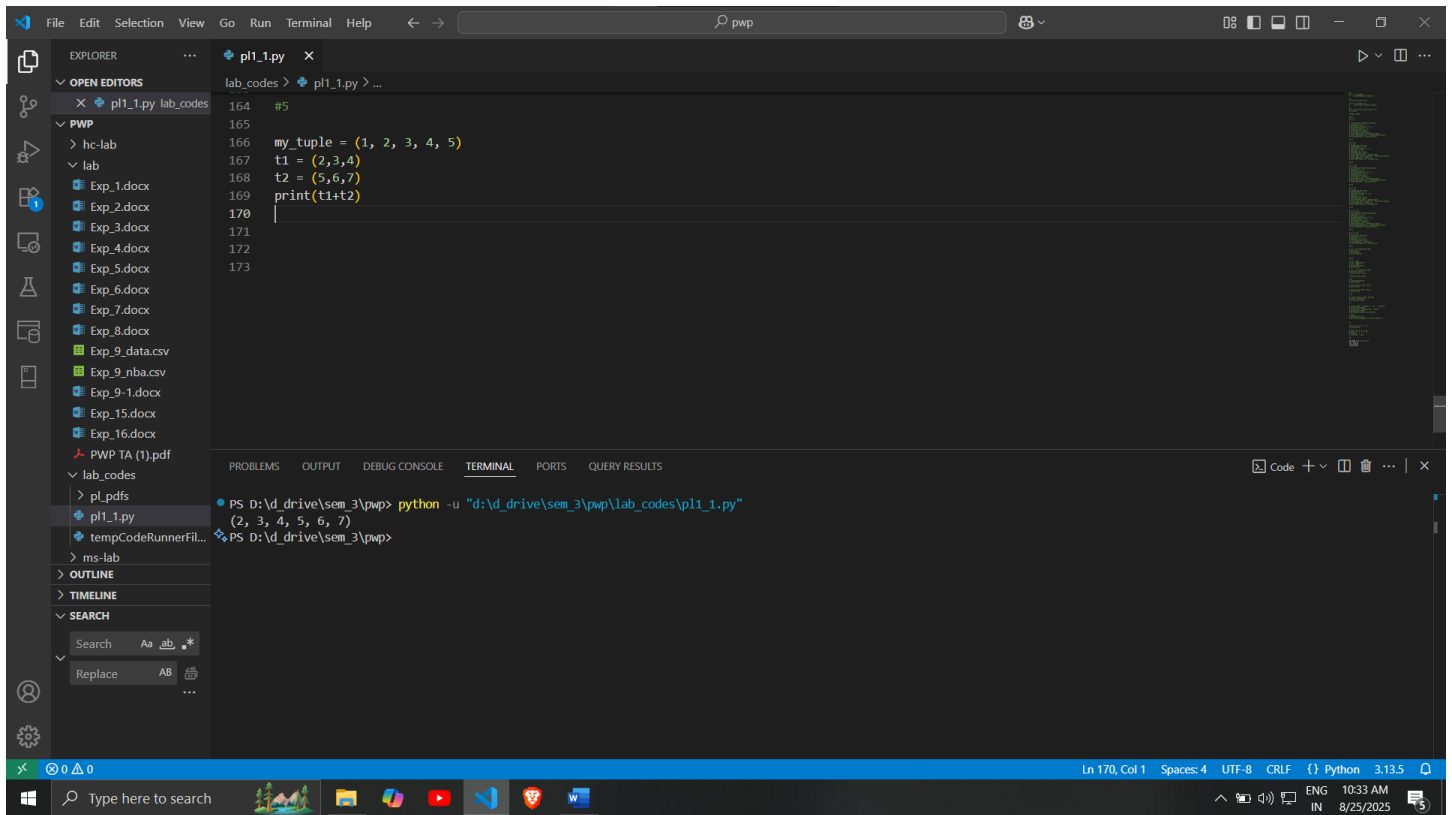
```

my_tuple = (1, 2, 3, 4, 5)
t1 = (2,3,4)
t2 = (5,6,7)
print(t1+t2)

```

Output

 Marwadi University Marwadi Chandarana Group 	Marwadi University Faculty of Engineering & Technology Department of Information and Communication Technology	
Subject: Programming With Python (01CT1309)	Aim: Write a program to demonstrate different number datatypes in python.	
Experiment No: 01	Date:7-7-2025	Enrollment No:9240133108



The screenshot shows a code editor with a file explorer on the left. The file explorer lists various files, including 'pl1_1.py lab_codes'. The main editor window displays the following Python code:

```

164 #5
165
166 my_tuple = (1, 2, 3, 4, 5)
167 t1 = (2,3,4)
168 t2 = (5,6,7)
169 print(t1+t2)
170
171
172
173

```

The terminal window at the bottom shows the execution of the program:



```

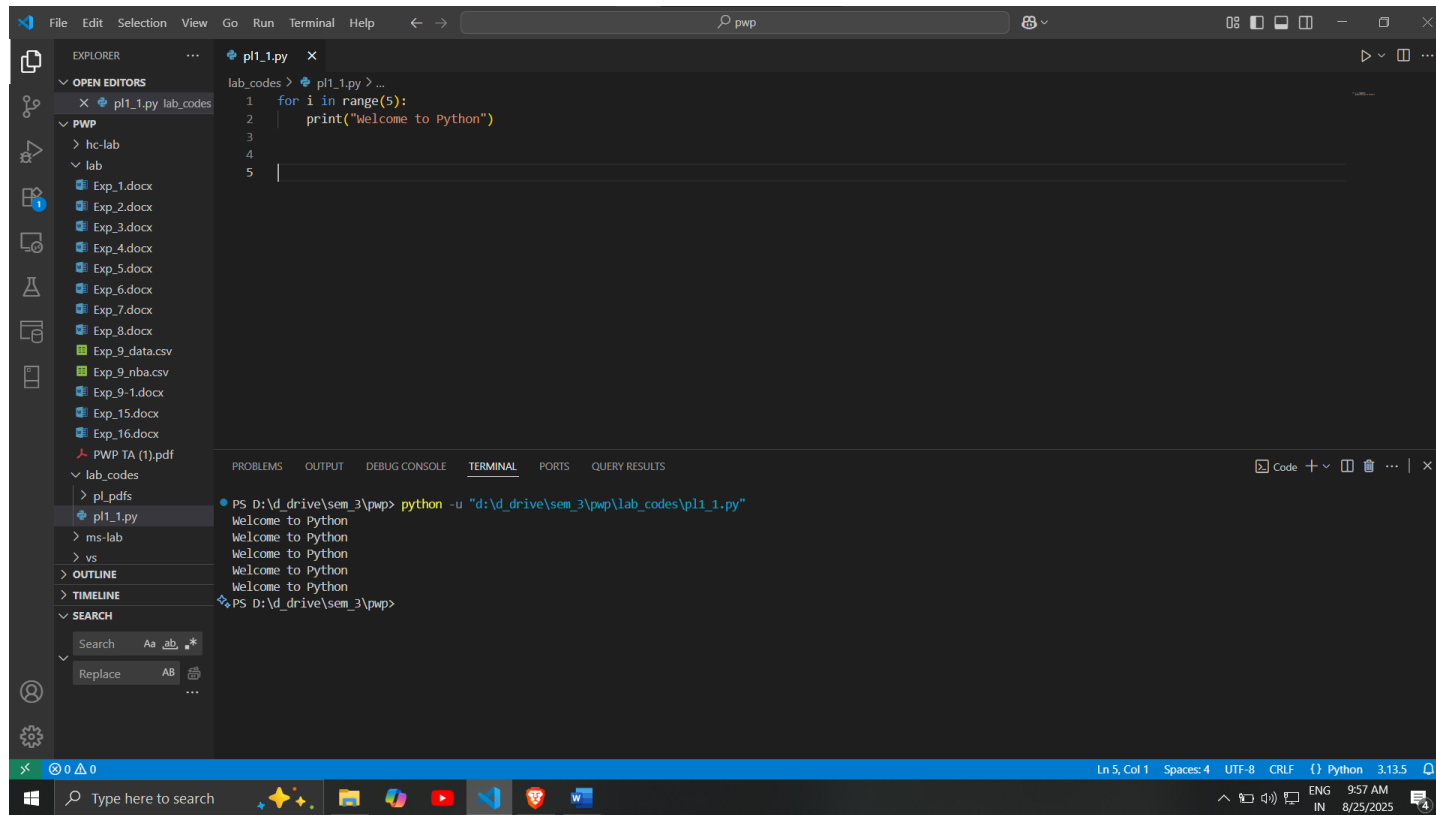
PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"
(2, 3, 4, 5, 6, 7)
PS D:\d_drive\sem_3\pwp>

```

Post Lab Exercise:

- a. Write a program that displays “Welcome to Python” five times.

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The screenshot shows a Visual Studio Code (VS Code) editor window. The Explorer sidebar on the left displays a file tree with a folder named 'lab_codes' containing a file 'pl1_1.py'. The main editor area shows the content of 'pl1_1.py', which is a Python script with the following code:

```

1  for i in range(5):
2      print("Welcome to Python")
3
4
5

```


Below the editor, the TERMINAL panel is active, showing the command prompt output of running the script:

```

PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"
Welcome to Python
Welcome to Python
Welcome to Python
Welcome to Python
Welcome to Python
PS D:\d_drive\sem_3\pwp>

```

The status bar at the bottom indicates the current cursor position is at Line 5, Column 1, with 4 spaces, using UTF-8 encoding and CRLF line endings. The Python version is 3.13.5.

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b. Write a program that displays the following table:

a	a^2	a^3
1	1	1
2	4	8
3	9	27
4	16	64

File

Edit

Selection

View

Go

Run

Terminal

Help

lab_codes

pl1_1.py

lab_codes

pl1_1.py

EXPLORER

OPEN EDITORS

pl1_1.py lab_codes

PWP

hc-lab

lab

Exp_1.docx

Exp_2.docx

Exp_3.docx

Exp_4.docx

Exp_5.docx

Exp_6.docx

Exp_7.docx

Exp_8.docx

Exp_9_data.csv

Exp_9_nba.csv

Exp_9-1.docx

Exp_15.docx

Exp_16.docx

PWP TA (1).pdf

lab_codes

pl_pdfs

pl1_1.py

ms-lab

vs

OUTLINE

TIMELINE

SEARCH

Search

Aa

ab

*

Replace

AB

6

print("a\t a^2\t a^3")

7

8

for a in range(1, 5):

9

print(f"{a}\t {a**2}\t {a**3}")

10

11

12

13

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

QUERY RESULTS

PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"

a

a^2

a^3

1

1

1

2

4

8

3

9

27

4

16

64

PS D:\d_drive\sem_3\pwp>

Ln 13, Col 1

Spaces: 4

UTF-8

CRLF

{}

Python



3.13.5

Type here to search

ENG

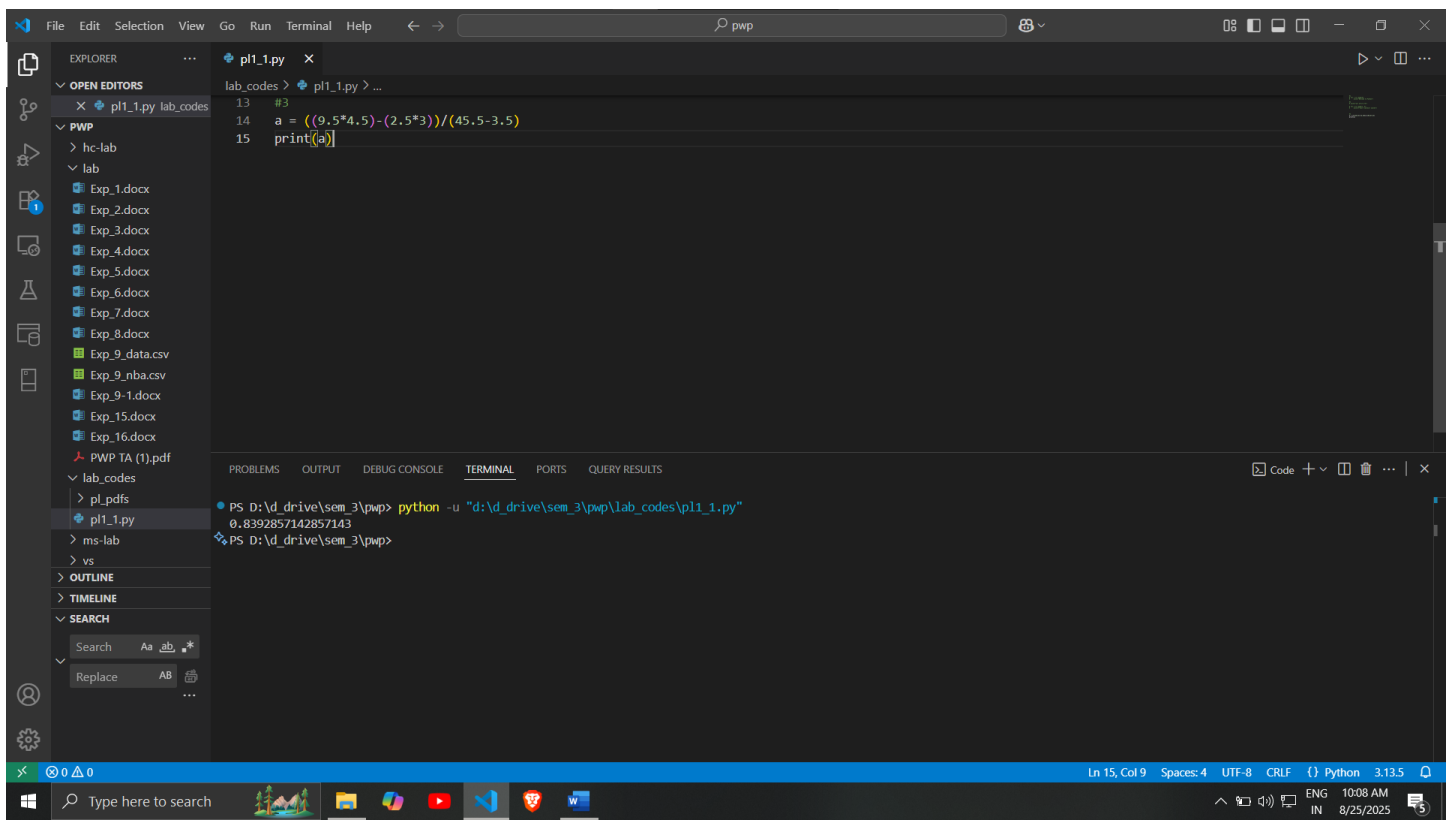
10:04 AM

8/25/2025

 Marwadi University Marwadi Chandarana Group 	Marwadi University Faculty of Engineering & Technology Department of Information and Communication Technology	
Subject: Programming With Python (01CT1309)	Aim: Write a program to demonstrate different number datatypes in python.	
Experiment No: 01	Date:7-7-2025	Enrollment No:9240133108

c. Write a program that displays the result of

$$\frac{9.5 \times 4.5 - 2.5 \times 3}{45.5 - 3.5}$$



The screenshot shows a Visual Studio Code editor with a file explorer on the left and a terminal at the bottom. The file explorer shows a project named 'pl1_1.py lab_codes' with a subfolder 'lab_codes' containing 'pl1_1.py'. The editor window shows the following Python code:

```

13 #3
14 a = ((9.5*4.5)-(2.5*3))/(45.5-3.5)
15 print(a)

```

The terminal shows the command to run the program:

```

PS D:\d_drive\sem_3\pwp> python -u "d:\d_drive\sem_3\pwp\lab_codes\pl1_1.py"
0.8392857142857143
PS D:\d_drive\sem_3\pwp>

```

The status bar at the bottom indicates the file is at line 15, column 9, with 4 spaces, using UTF-8 encoding and CRLF line endings. The Python version is 3.13.5.