
 <b>Marwadi University</b> Marwadi Chandarana Group 	<b>Marwadi University</b> <b>Faculty of Engineering &amp; Technology</b> <b>Department of Information and Communication Technology</b>	
<b>Subject: Programming With Python (01CT1309)</b>	<b>Aim:</b> Write a program to demonstrate different number datatypes in python.	
<b>Experiment No: 01</b>	<b>Date:08/07/2025</b>	<b>Enrollment No:92400133065</b>

**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.

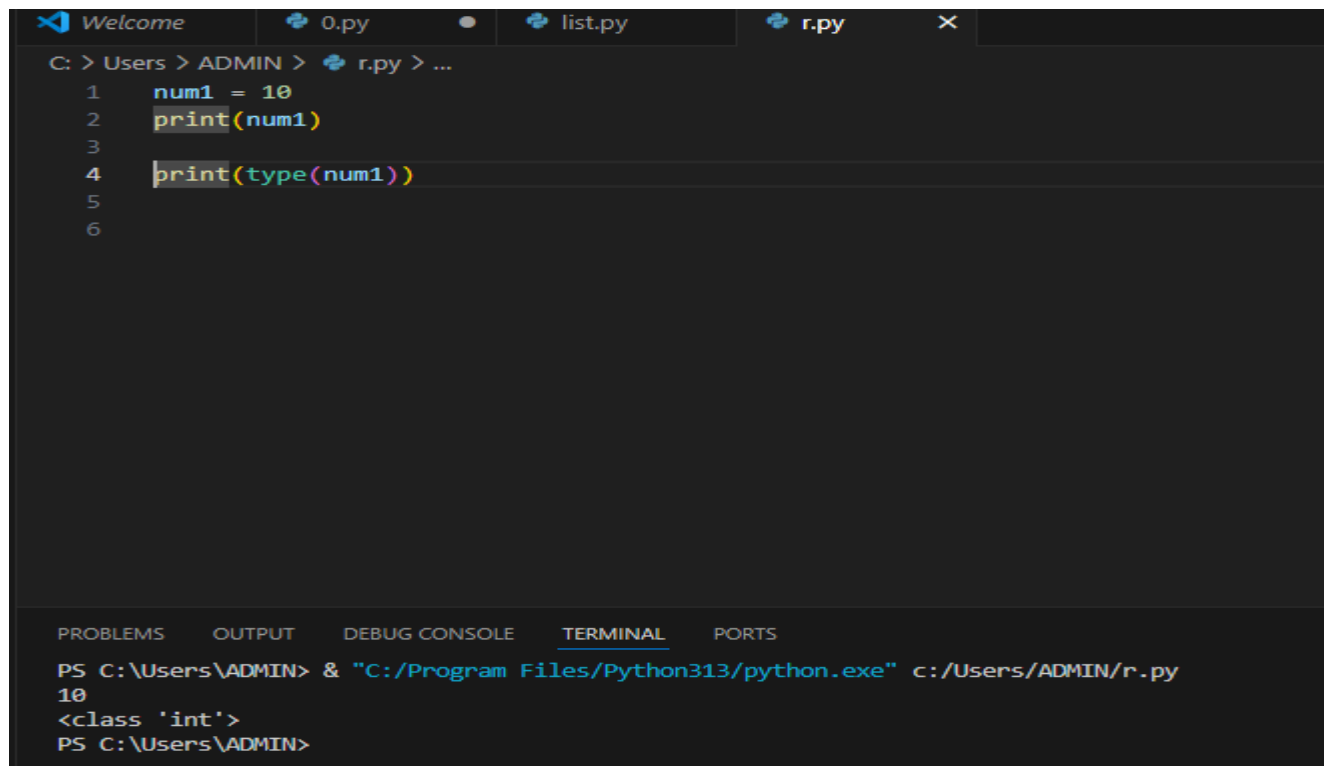
 <b>Marwadi University</b> Marwadi Chandarana Group	<b>Marwadi University</b> <b>Faculty of Engineering &amp; Technology</b> <b>Department of Information and Communication Technology</b>
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## Results

### Numeric Data Types

#### Python Code:

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





```

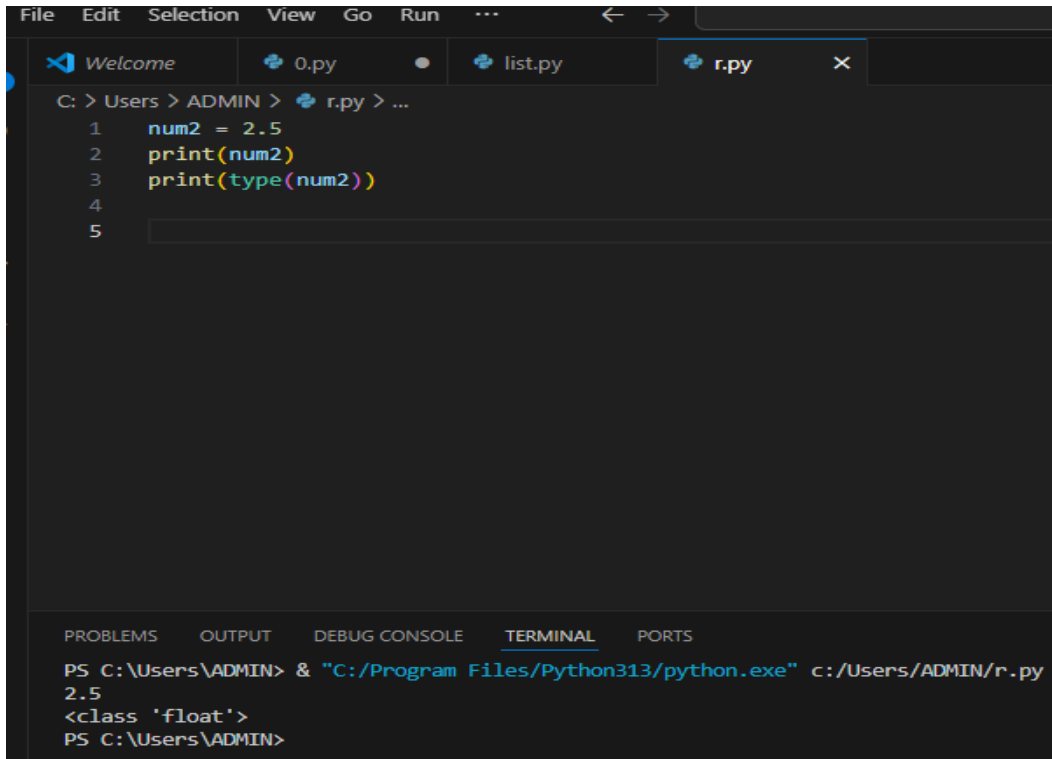
Welcome
0.py
list.py
r.py
C: > Users > ADMIN > r.py > ...
1  num1 = 10
2  print(num1)
3
4  print(type(num1))
5
6

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
10
<class 'int'>
PS C:\Users\ADMIN>

```

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

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```

File Edit Selection View Go Run ...
Welcome 0.py list.py r.py x
C: > Users > ADMIN > r.py > ...
1 num2 = 2.5
2 print(num2)
3 print(type(num2))
4
5



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
2.5
<class 'float'>
PS C:\Users\ADMIN>

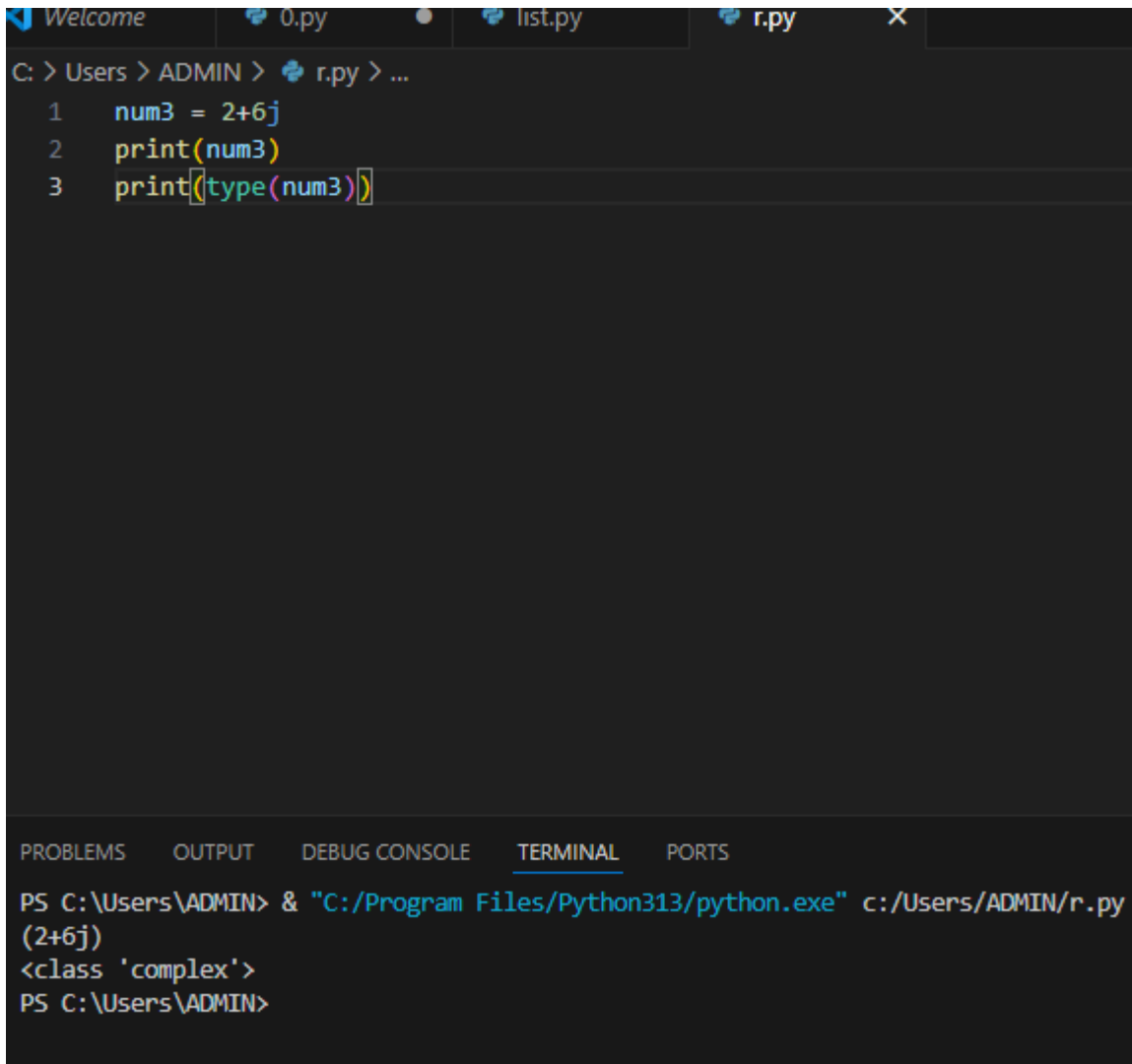
```

```

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

```

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```

Welcome | 0.py | list.py | r.py | X
C: > Users > ADMIN > r.py > ...
1  num3 = 2+6j
2  print(num3)
3  print(type(num3))

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
(2+6j)
<class 'complex'>
PS C:\Users\ADMIN>

```

### Example 1

```


x = 5
y = -6

```

```

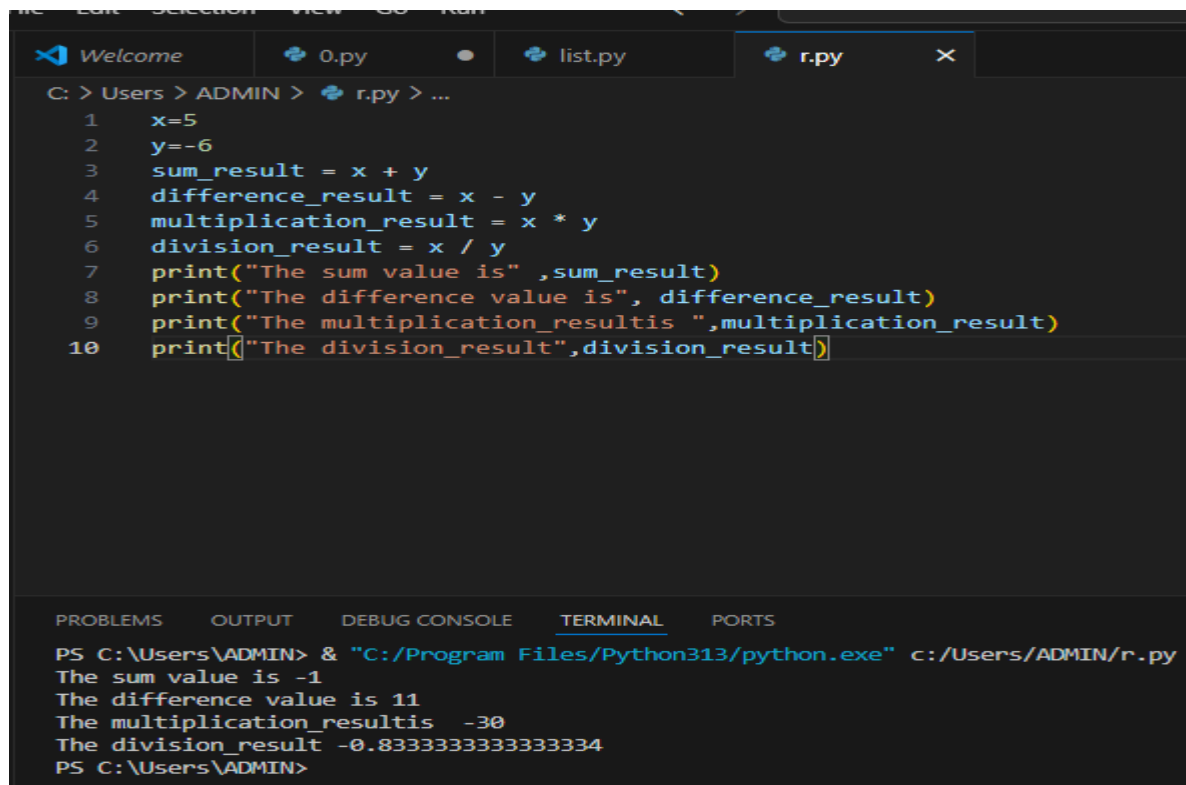
# Performing arithmetic operations
sum_result = x + y
difference_result = x - y
multiplication_result = x * y
division_result = x / y
# Printing the results
print("Sum:", sum_result)
print("Difference:", difference_result)

```

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```
print("Multiplication:", multiplication_result)
print("Division:", division_result)
```

Output:



```

C: > Users > ADMIN > r.py > ...
1  x=5
2  y=-6
3  sum_result = x + y
4  difference_result = x - y
5  multiplication_result = x * y
6  division_result = x / y
7  print("The sum value is" ,sum_result)
8  print("The difference value is", difference_result)
9  print("The multiplication_resultis ",multiplication_result)
10 print("The division_result",division_result)

```

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
The sum value is -1
The difference value is 11
The multiplication_resultis -30
The division_result -0.8333333333333334
PS C:\Users\ADMIN>



```

### Example 2:

```

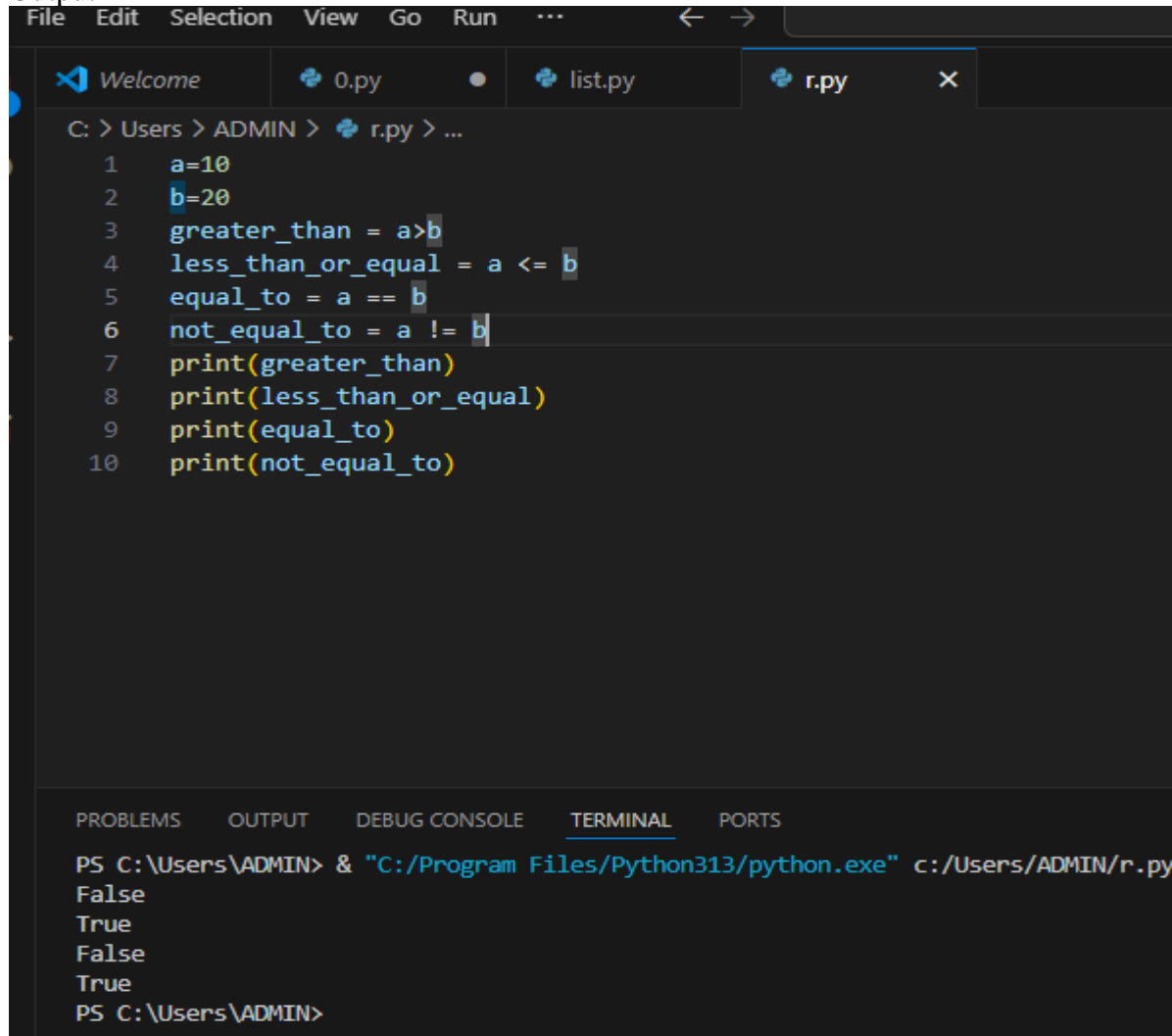
a = 10
b = 20
# Comparing the values
greater_than = a > b
less_than_or_equal = a <= b
equal_to = a == b
not_equal_to = a != b
# Printing the results
print("Greater than:", greater_than)
print("Less than or equal to:", less_than_or_equal)
print("Equal to:", equal_to)

```

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```
print("Not equal to:", not_equal_to)
```

### Output



```

File Edit Selection View Go Run ...
Welcome 0.py list.py r.py x
C: > Users > ADMIN > r.py > ...
1 a=10
2 b=20
3 greater_than = a>b
4 less_than_or_equal = a <= b
5 equal_to = a == b
6 not_equal_to = a != b
7 print(greater_than)
8 print(less_than_or_equal)
9 print(equal_to)
10 print(not_equal_to)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
False
True
False
True
PS C:\Users\ADMIN>


```

### Example 3

```

x = 3.14
y = 2.5
# Performing arithmetic operations
sum_result = x + y

```

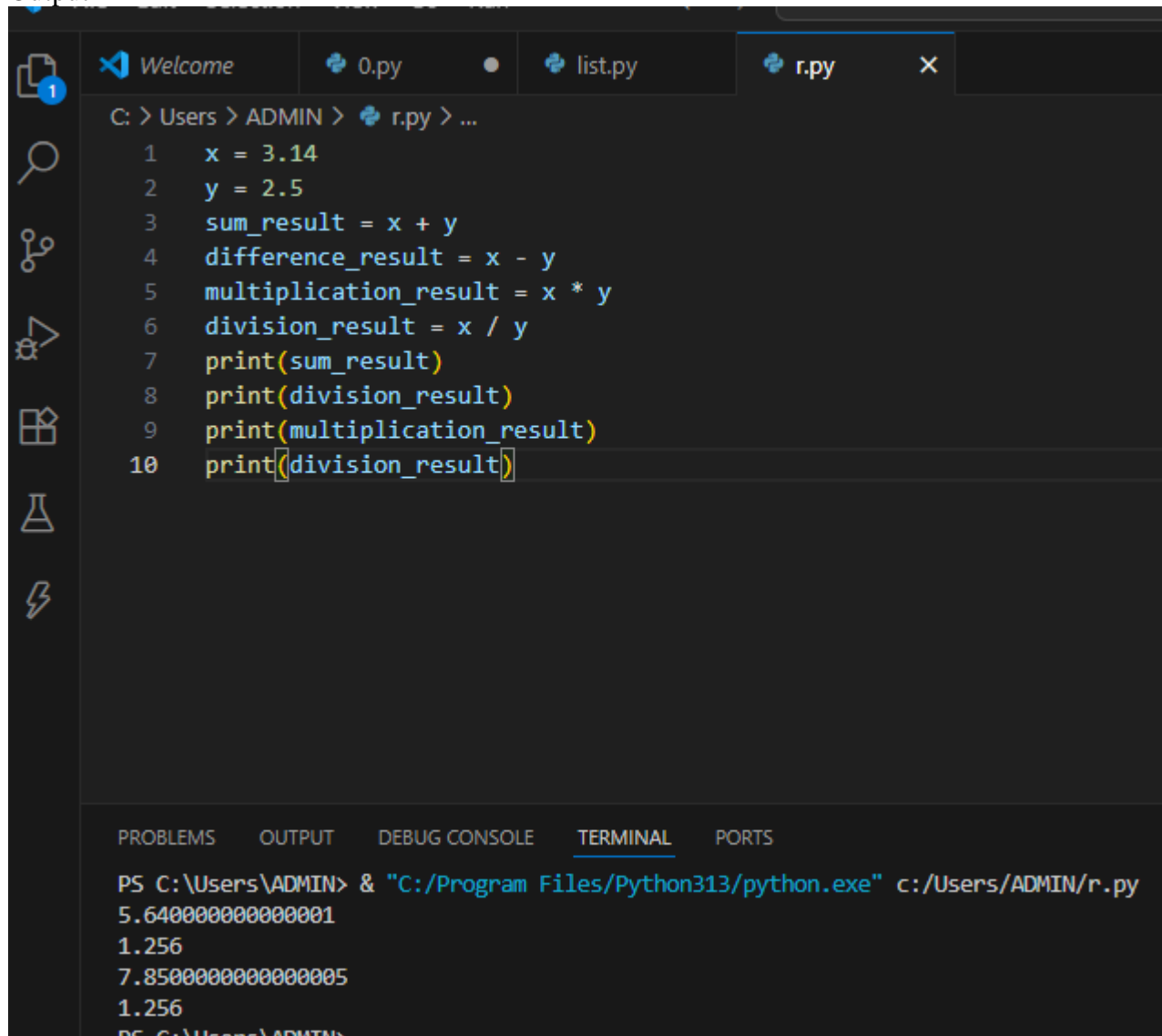
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```

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



The screenshot shows a code editor with a file named `r.py` open. The code defines variables `x` and `y`, calculates their sum, difference, multiplication, and division, and prints each result. Below the code, the terminal output shows the execution of the program, displaying the calculated values for each operation.

```

C: > Users > ADMIN > r.py > ...
1  x = 3.14
2  y = 2.5
3  sum_result = x + y
4  difference_result = x - y
5  multiplication_result = x * y
6  division_result = x / y
7  print(sum_result)
8  print(difference_result)
9  print(multiplication_result)
10 print(difference_result)



```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```

PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
5.640000000000001
1.256
7.850000000000005
1.256
PS C:\Users\ADMIN>

```

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#### 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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```

C: > Users > ADMIN > r.py > ...
1  a = 1.2
2  b = 2.7
3  greater_than = a > b
4  less_than_or_equal = a <= b
5  equal_to = a == b
6  not_equal_to = a != b
7  print("Greater than:", greater_than)
8  print("Less than or equal to:", less_than_or_equal)
9  print("Equal to:", equal_to)
10 print("Not equal to:", not_equal_to)
11

```

---

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```

PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
Greater than: False
Less than or equal to: True
Equal to: False
Not equal to: True
PS C:\Users\ADMIN>



```

### Example 5

```

x = 2 + 3j
y = -1 + 2j
# Performing arithmetic operations

```


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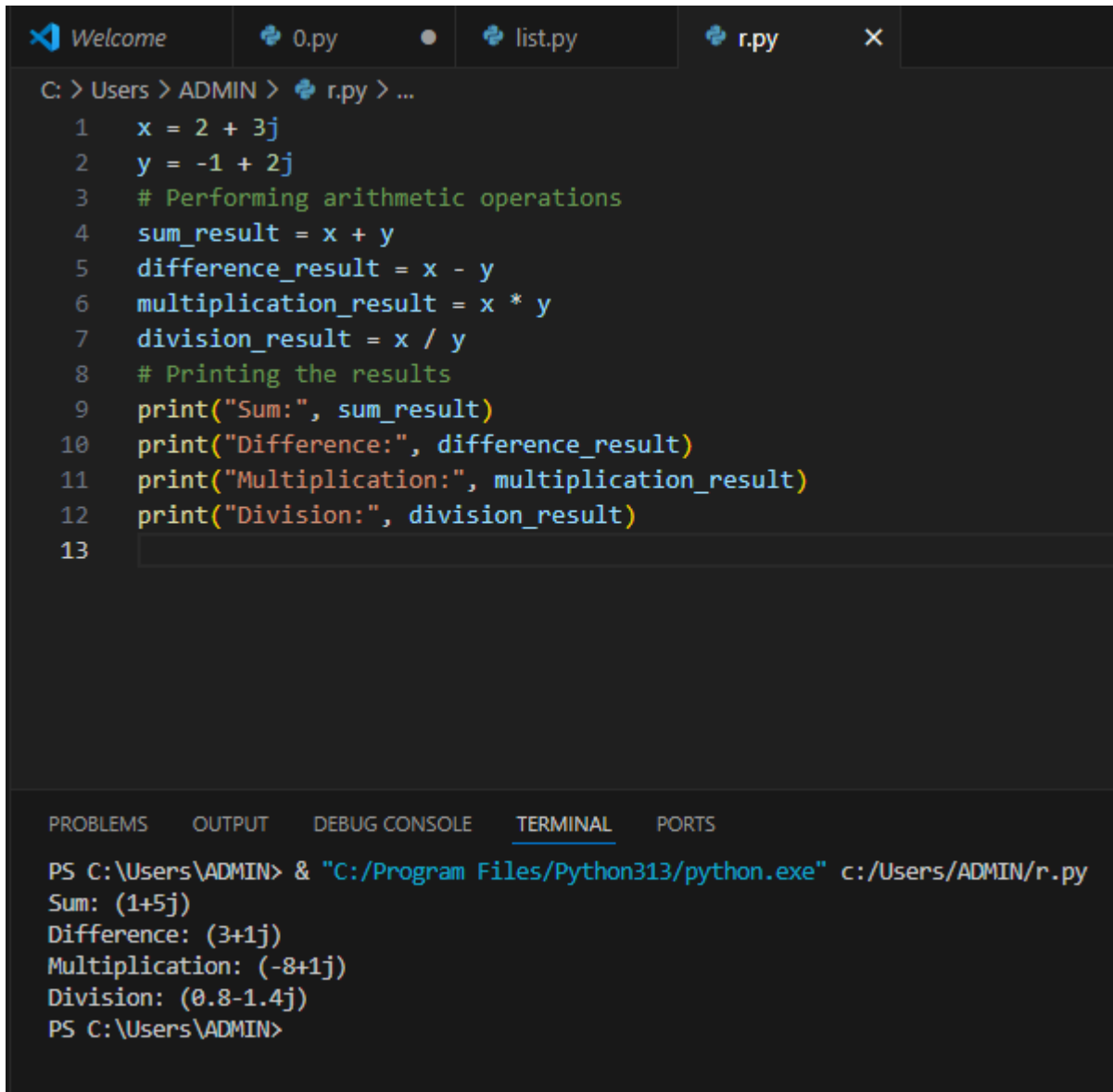
```

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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```

C: > Users > ADMIN > r.py > ...
1  x = 2 + 3j
2  y = -1 + 2j
3  # Performing arithmetic operations
4  sum_result = x + y
5  difference_result = x - y
6  multiplication_result = x * y
7  division_result = x / y
8  # Printing the results
9  print("Sum:", sum_result)
10 print("Difference:", difference_result)
11 print("Multiplication:", multiplication_result)
12 print("Division:", division_result)
13

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
Sum: (1+5j)
Difference: (3+1j)
Multiplication: (-8+1j)
Division: (0.8-1.4j)
PS C:\Users\ADMIN>


```

### Example 6

```

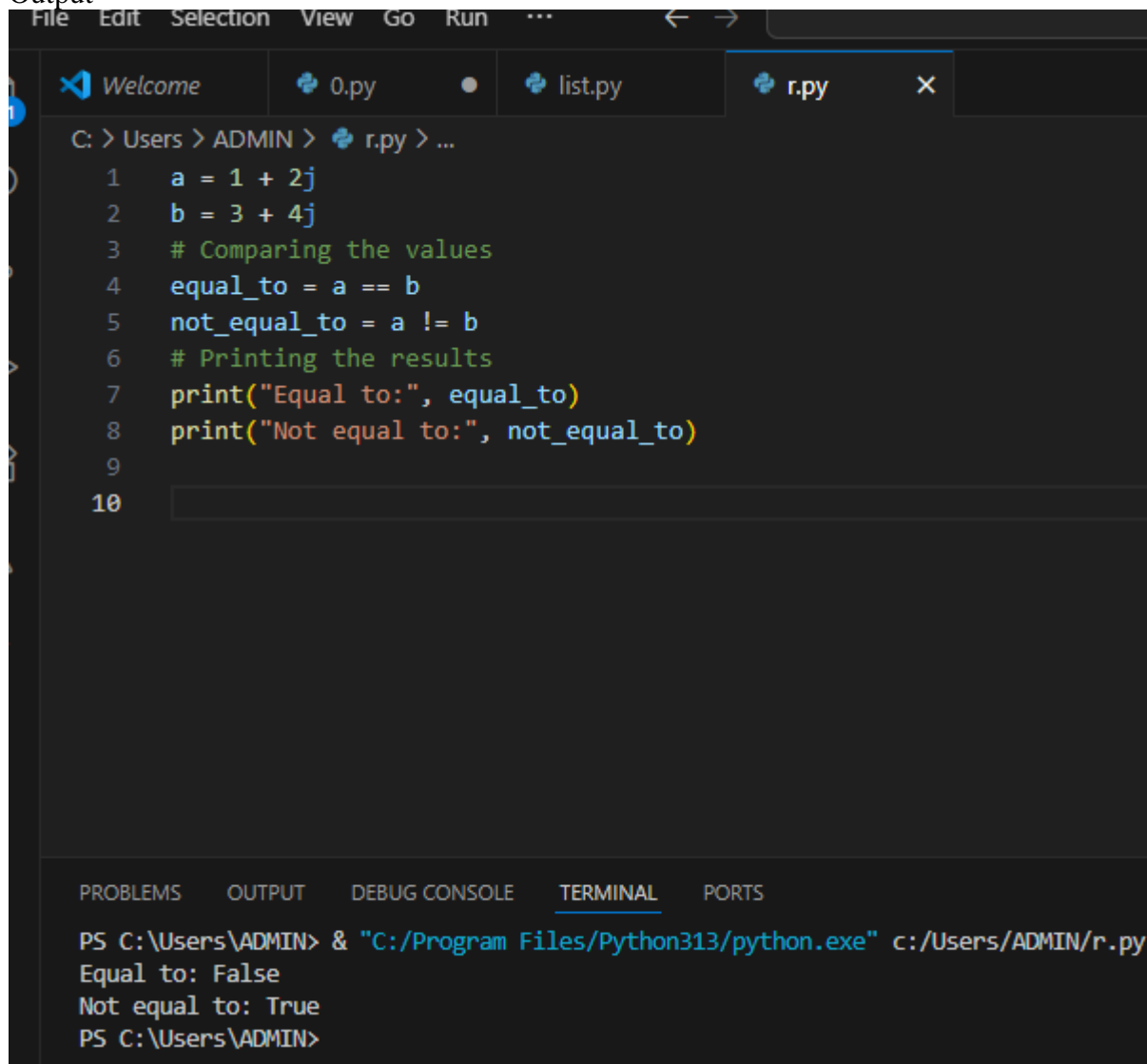
a = 1 + 2j
b = 3 + 4j
# Comparing the values
equal_to = a == b

```

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```
not_equal_to = a != b
# Printing the results
print("Equal to:", equal_to)
print("Not equal to:", not_equal_to)
```

Output




The screenshot shows a code editor with a file named 'r.py' open. The code in the editor is as follows:

```
1 a = 1 + 2j
2 b = 3 + 4j
3 # Comparing the values
4 equal_to = a == b
5 not_equal_to = a != b
6 # Printing the results
7 print("Equal to:", equal_to)
8 print("Not equal to:", not_equal_to)
9
10
```

Below the code editor, the terminal output is displayed:

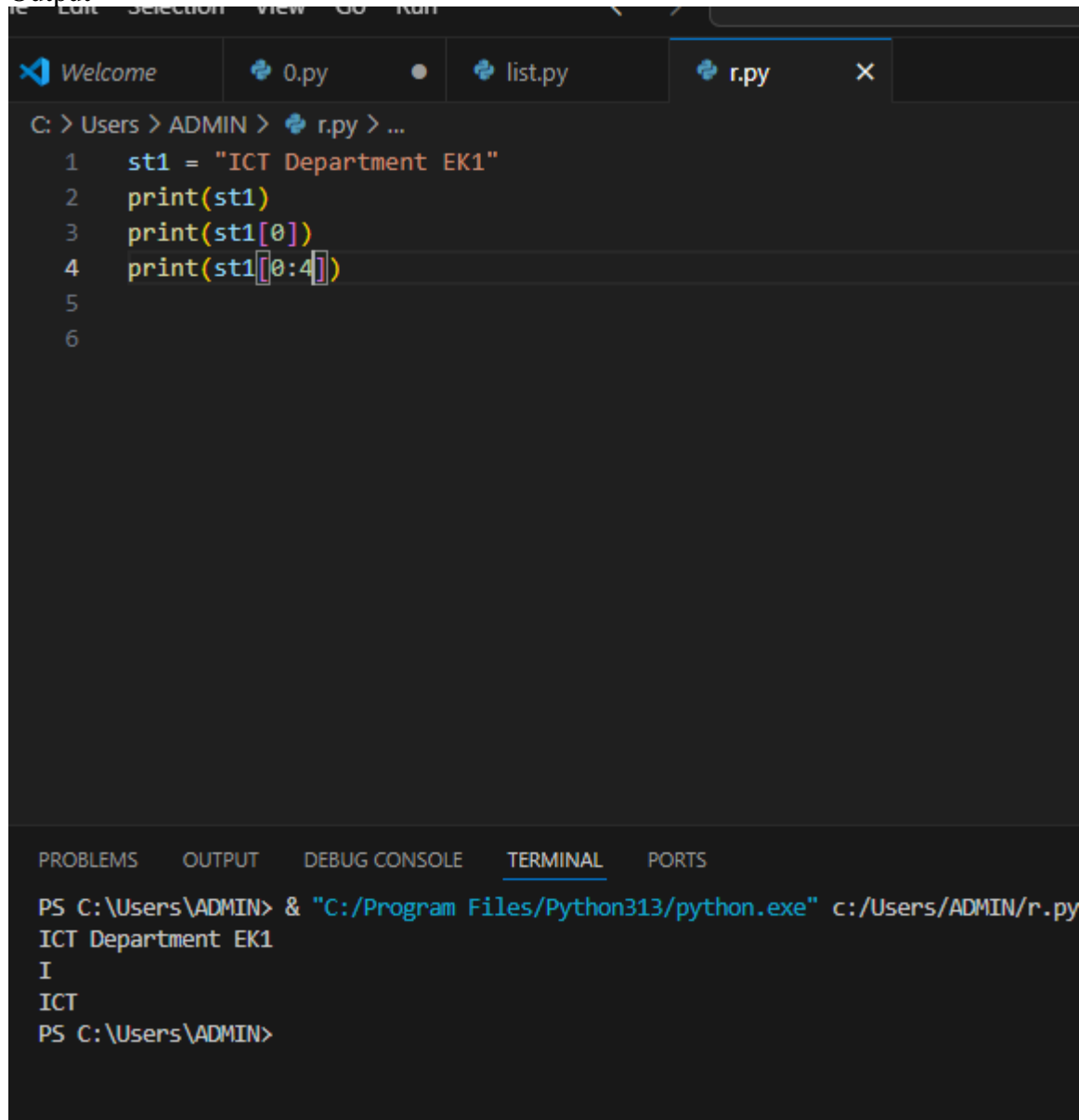
```
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
Equal to: False
Not equal to: True
PS C:\Users\ADMIN>
```

### Example 7

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

Output





The screenshot shows a Python IDE with a file named 'r.py' open. The code in the editor is:

```
1 st1 = "ICT Department EK1"
2 print(st1)
3 print(st1[0])
4 print(st1[0:4])
5
6
```

The output window at the bottom shows the execution results:

```
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
ICT Department EK1
I
ICT
PS C:\Users\ADMIN>
```

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### Example 8

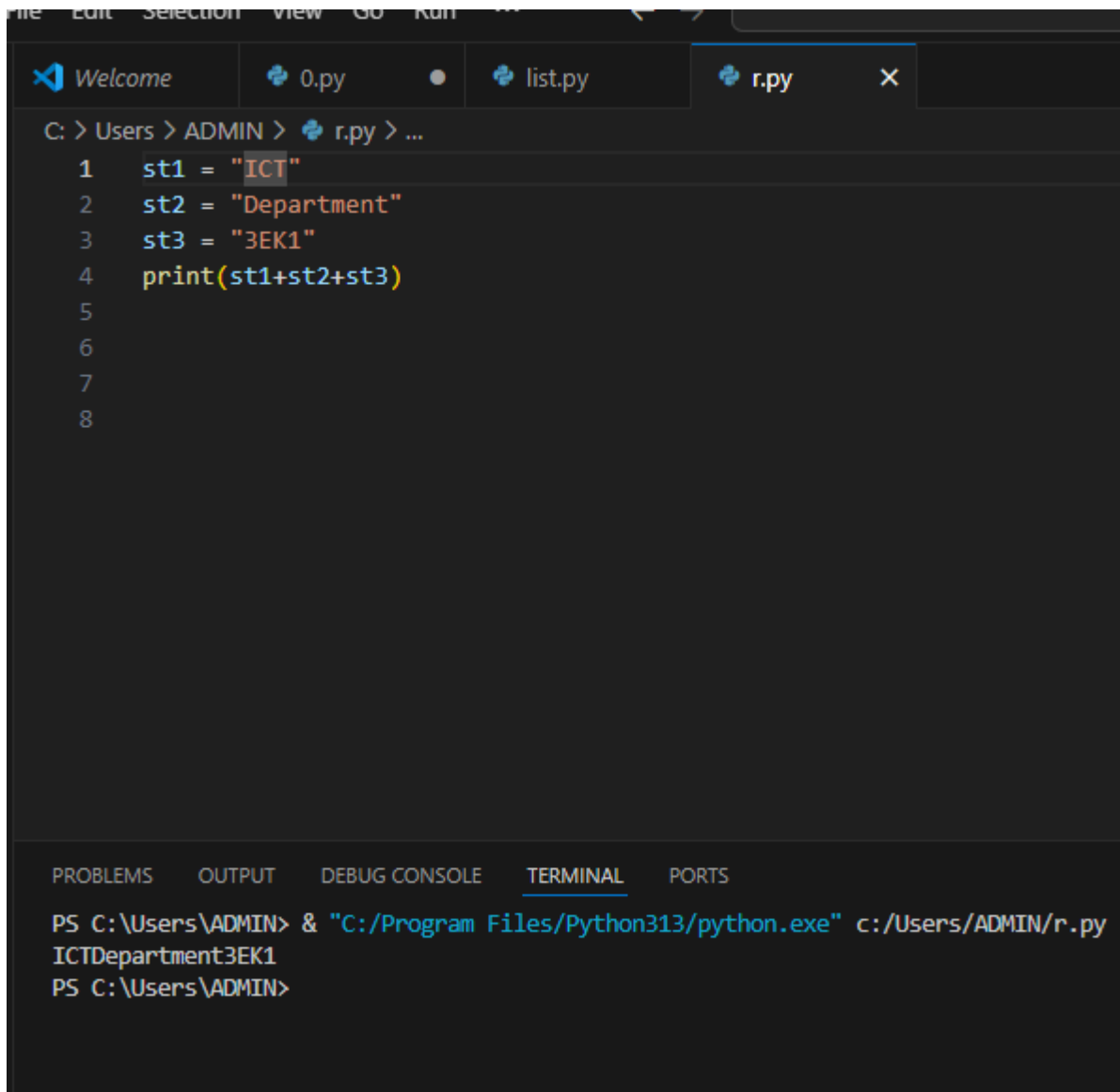
```
st1 = "ICT"
st2 = "Department"
st3 = "3EK1"
print(st1+st2+st3)
```

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

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

Output

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```

1  st1 = "ICT"
2  st2 = "Department"
3  st3 = "3EK1"
4  print(st1+st2+st3)
5
6
7
8

```

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS


PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
ICTDepartment3EK1
PS C:\Users\ADMIN>

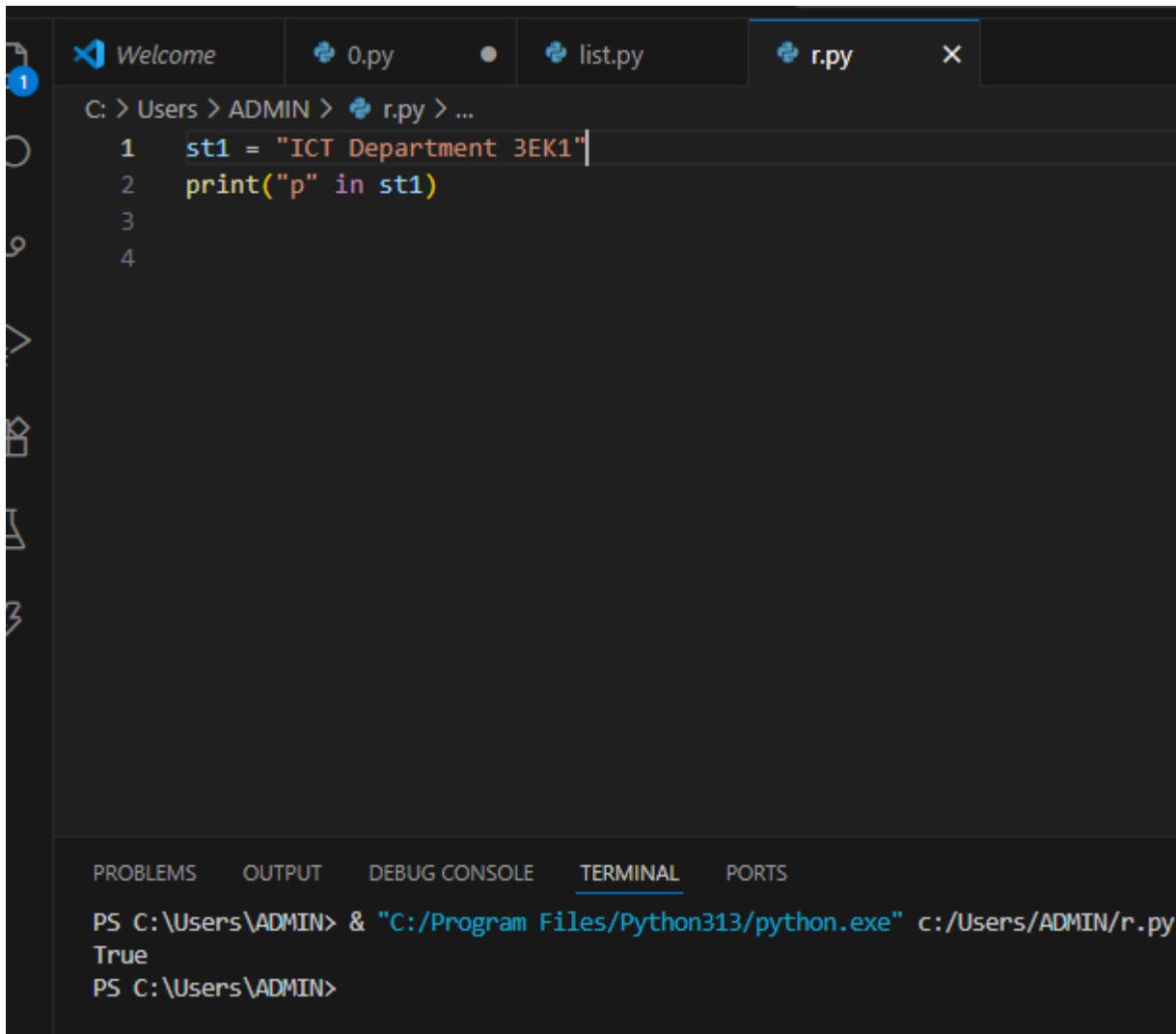
```

**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 a Python IDE with a file named `r.py` open. The code in the file is:

```

1 st1 = "ICT Department 3EK1"
2 print("p" in st1)
3
4

```

The terminal output at the bottom shows the command to run the script and the result:

```

PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
True
PS C:\Users\ADMIN>

```

Print(“P” not in st1)

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)

```

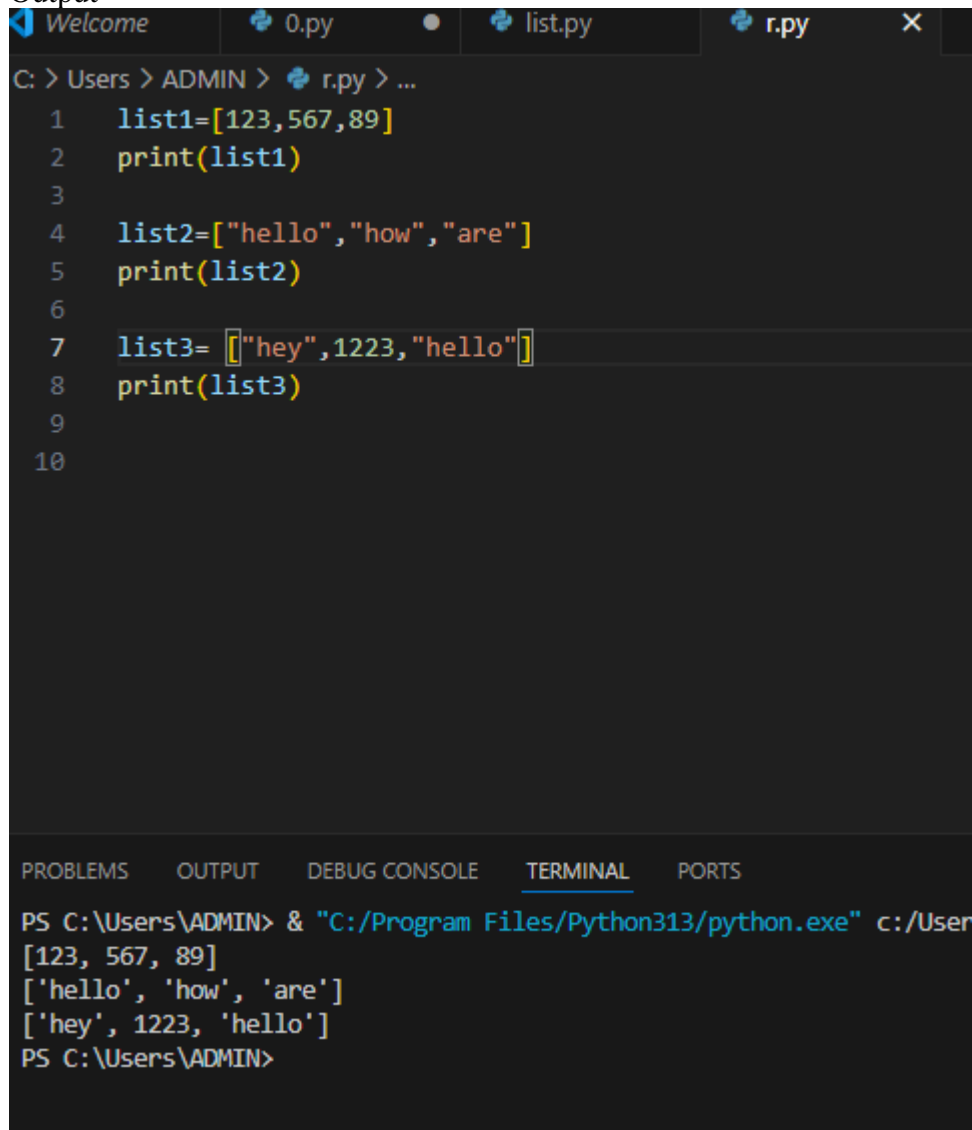


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```
list2=["hello","how","are"]
print(list2)
```

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

Output




The screenshot shows a Python IDE with three tabs: 'Welcome', '0.py', and 'list.py'. The 'list.py' tab is active, displaying the following code:

```
1 list1=[123,567,89]
2 print(list1)
3
4 list2=["hello","how","are"]
5 print(list2)
6
7 list3= ["hey",1223,"hello"]
8 print(list3)
9
10
```

Below the code editor, the 'TERMINAL' tab is selected, showing the command prompt output:

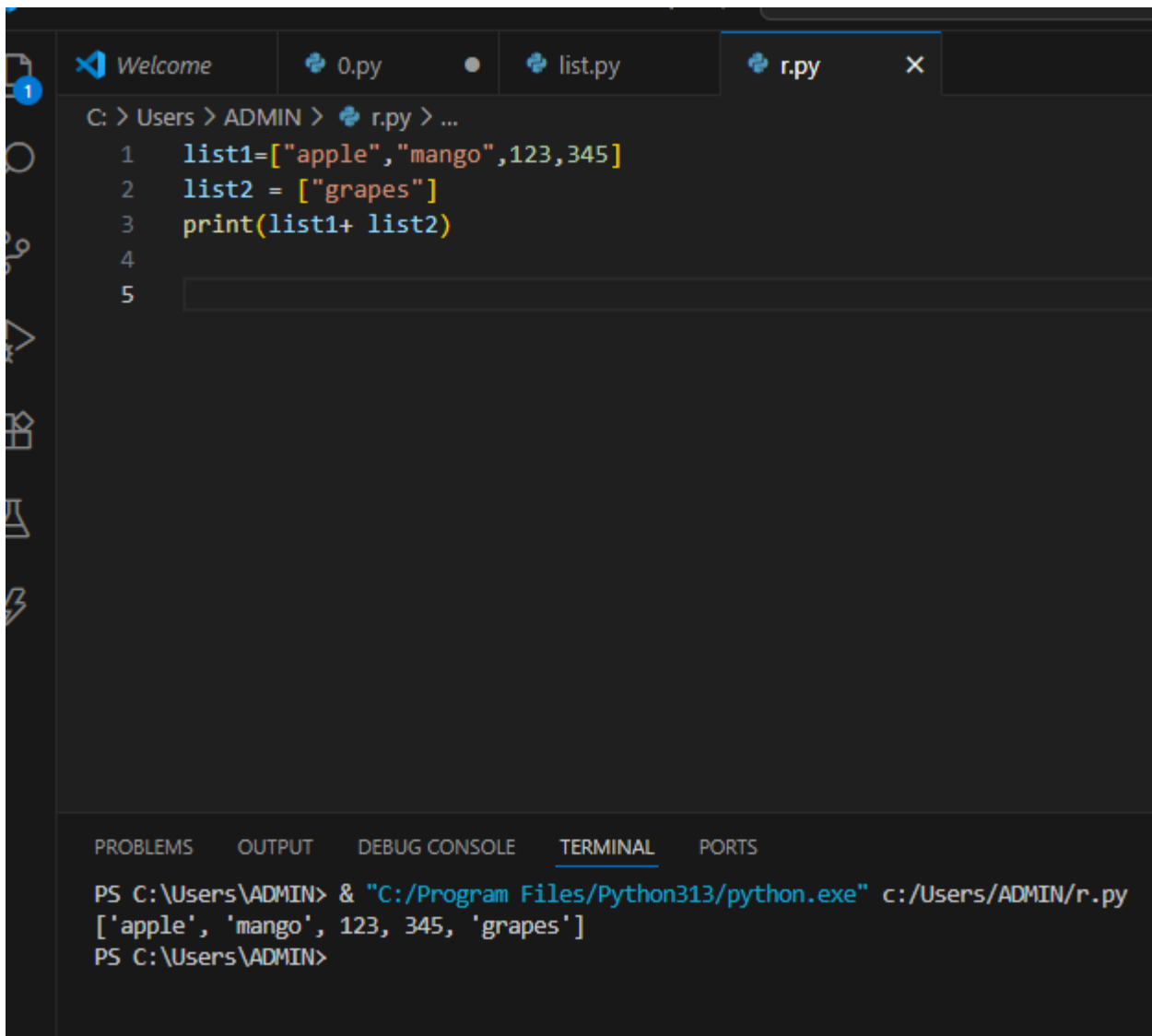
```
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/User
[123, 567, 89]
['hello', 'how', 'are']
['hey', 1223, 'hello']
PS C:\Users\ADMIN>
```

```
list1=["apple","mango",123,345]
```

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```
list2 = ["grapes"]
print(list1+ list2)
```

Output





The screenshot shows a Python IDE with a dark theme. The top bar has tabs for 'Welcome', '0.py', 'list.py', and 'r.py'. The main editor area shows the following code:

```
1 list1=["apple","mango",123,345]
2 list2 = ["grapes"]
3 print(list1+ list2)
4
5
```

The bottom panel has tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', and 'PORTS'. The 'TERMINAL' tab is active, showing the command prompt output:

```
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
['apple', 'mango', 123, 345, 'grapes']
PS C:\Users\ADMIN>
```

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

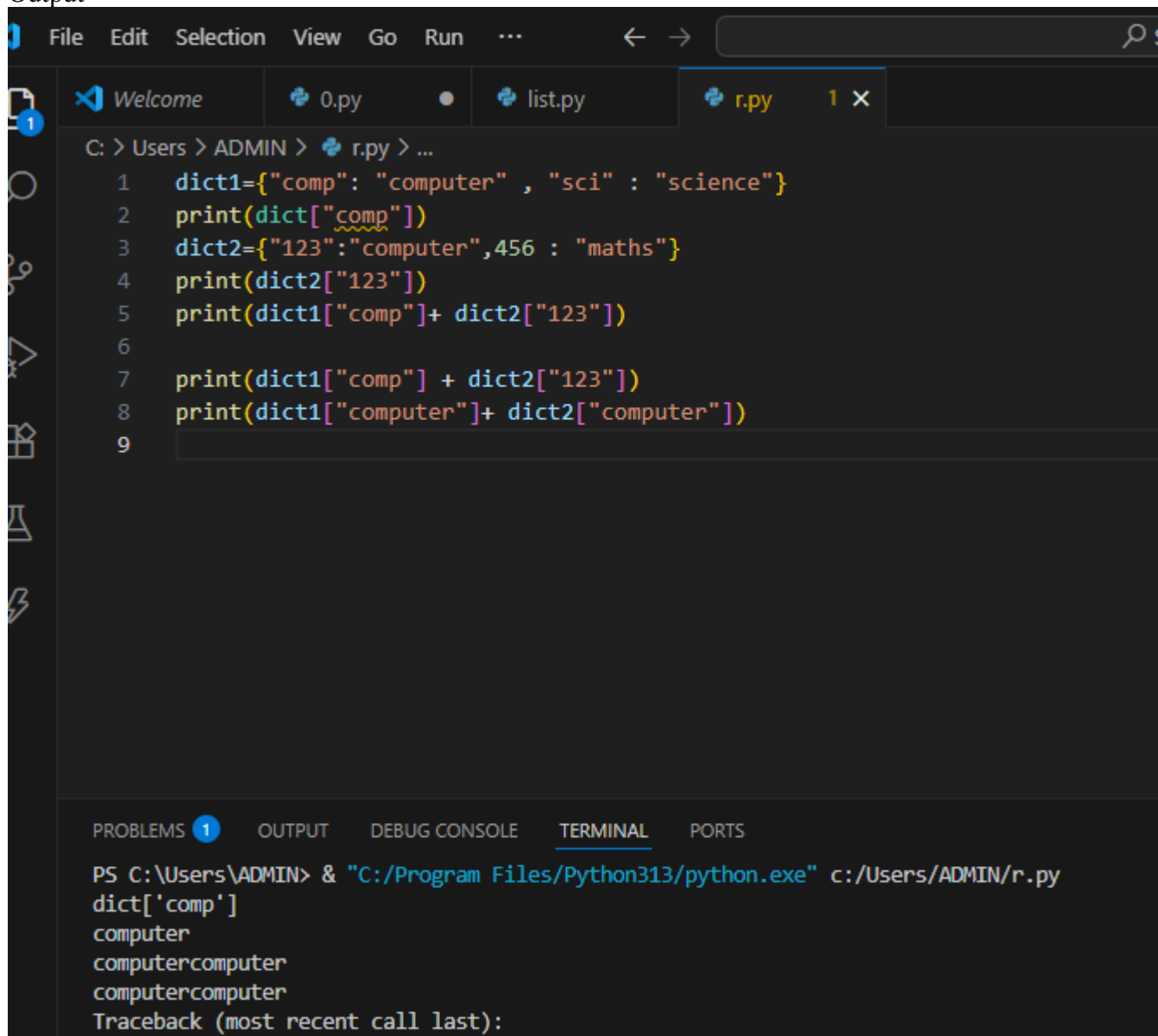
 <b>Marwadi University</b> Marwadi Chandarana Group 	<b>Marwadi University</b> <b>Faculty of Engineering &amp; Technology</b> <b>Department of Information and Communication Technology</b>	
<b>Subject: Programming With Python (01CT1309)</b>	<b>Aim:</b> Write a program to demonstrate different number datatypes in python.	
<b>Experiment No: 01</b>	<b>Date:08/07/2025</b>	<b>Enrollment No:92400133065</b>

```
print(dict2["123"])
print(dict1["comp"]+ dict2["123"])
```

Check

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

Output





```

File Edit Selection View Go Run ...
Welcome 0.py list.py r.py 1 x
C: > Users > ADMIN > r.py > ...
1 dict1={"comp": "computer" , "sci" : "science"}
2 print(dict["comp"])
3 dict2={"123":"computer",456 : "maths"}
4 print(dict2["123"])
5 print(dict1["comp"]+ dict2["123"])
6
7 print(dict1["comp"] + dict2["123"])
8 print(dict1["computer"]+ dict2["computer"])
9

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
dict['comp']
computer
computercomputer
computercomputer
Traceback (most recent call last):

```

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<b>Subject: Programming With Python (01CT1309)</b>	<b>Aim:</b> Write a program to demonstrate different number datatypes in python.	
<b>Experiment No: 01</b>	<b>Date:08/07/2025</b>	<b>Enrollment No:92400133065</b>



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

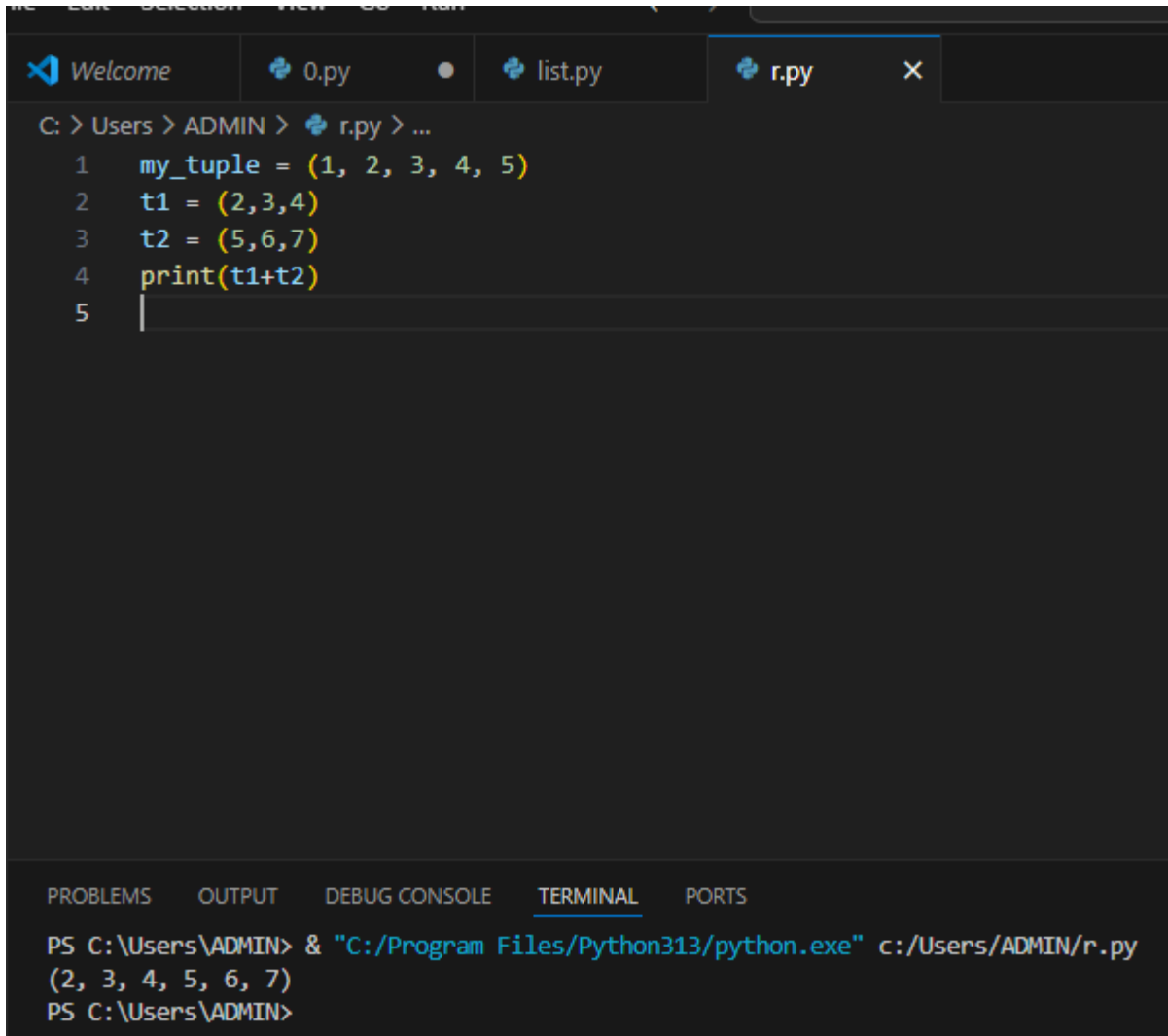
```
set1 = { 1, 2, 3, 4, 5}
set2 = {4, 5, 6, 7, 8}
check
print(set1 + set2)
```

Output

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

Output

 <b>Marwadi University</b> Marwadi Chandarana Group 	<b>Marwadi University</b> <b>Faculty of Engineering &amp; Technology</b> <b>Department of Information and Communication Technology</b>	
<b>Subject: Programming With Python (01CT1309)</b>	<b>Aim:</b> Write a program to demonstrate different number datatypes in python.	
<b>Experiment No: 01</b>	<b>Date:08/07/2025</b>	<b>Enrollment No:92400133065</b>



```


C: > Users > ADMIN > r.py > ...
1  my_tuple = (1, 2, 3, 4, 5)
2  t1 = (2,3,4)
3  t2 = (5,6,7)
4  print(t1+t2)
5

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS C:\Users\ADMIN> & "C:/Program Files/Python313/python.exe" c:/Users/ADMIN/r.py
(2, 3, 4, 5, 6, 7)
PS C:\Users\ADMIN>

```

**Post Lab Exercise:**

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

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<b>Subject: Programming With Python (01CT1309)</b>		<b>Aim:</b> Write a program to demonstrate different number datatypes in python.	
<b>Experiment No: 01</b>	<b>Date:08/07/2025</b>	<b>Enrollment No:92400133065</b>	

b. Write a program that displays the following table:

a	a <sup>2</sup>	a <sup>3</sup>
1	1	1
2	4	8
3	9	27
4	16	64

c. Write a program that displays the result of

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