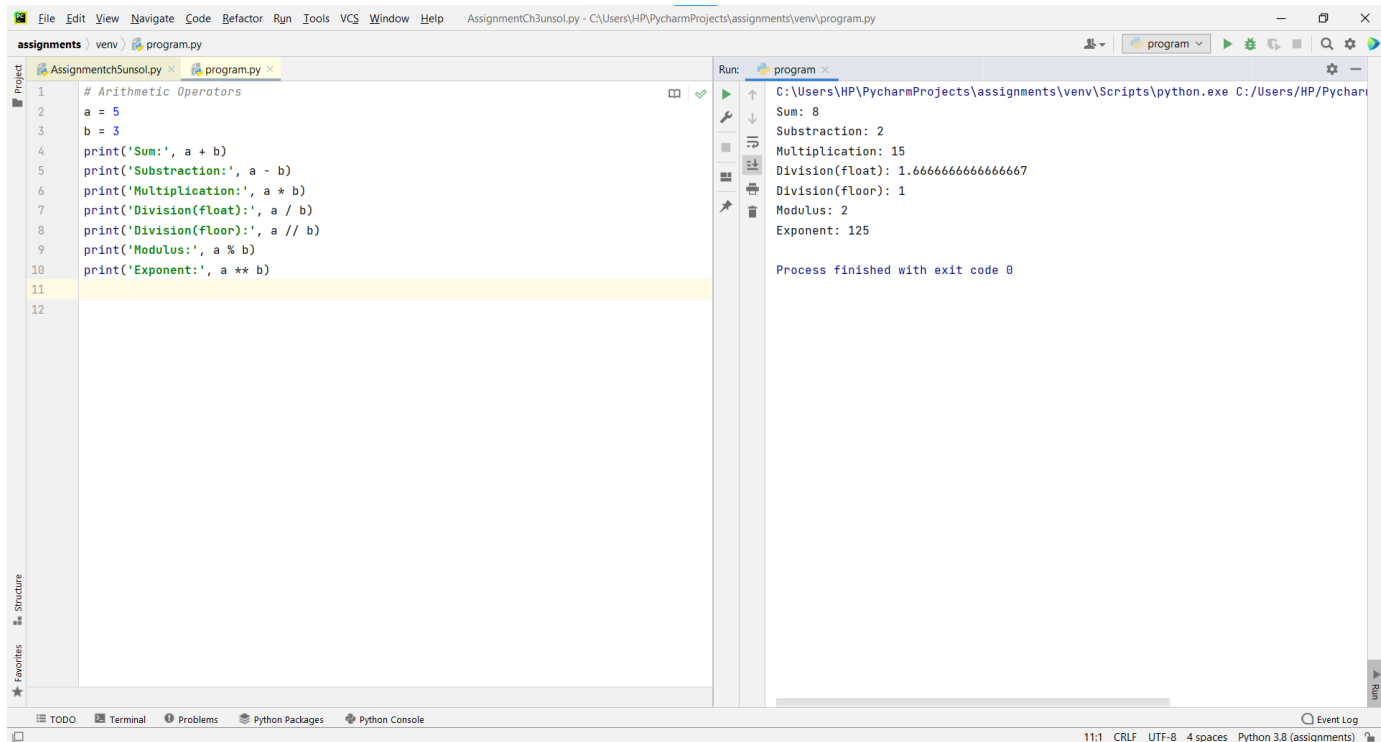


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Subject: Python Programming

Practical Assignment -1



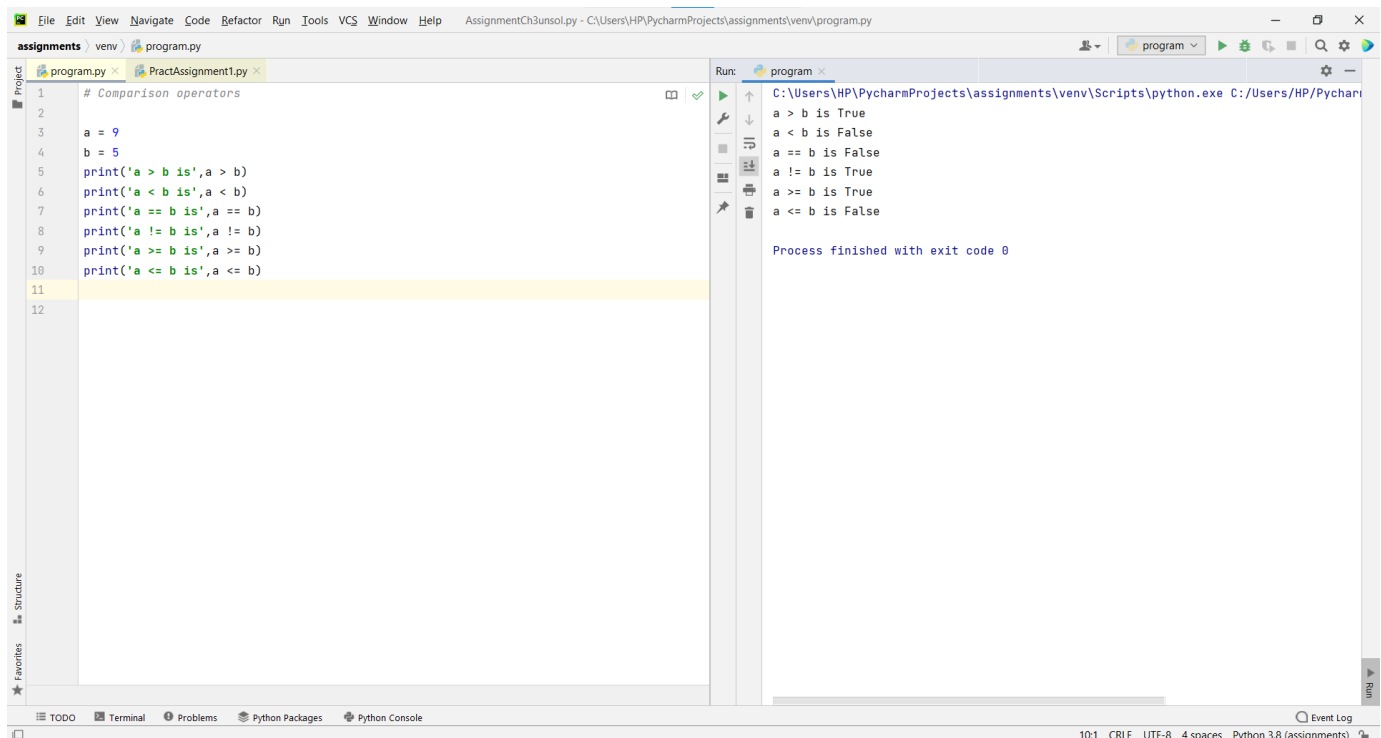
The screenshot shows the PyCharm IDE with a file named `program.py` open. The code defines variables `a = 5` and `b = 3`, and then prints the results of various arithmetic operations. The Run window on the right shows the output of the program.

```
1 # Arithmetic Operators
2 a = 5
3 b = 3
4 print('Sum:', a + b)
5 print('Subtraction:', a - b)
6 print('Multiplication:', a * b)
7 print('Division(float):', a / b)
8 print('Division(floor):', a // b)
9 print('Modulus:', a % b)
10 print('Exponent:', a ** b)
```

Run: program

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/PycharmProjects/assignments/venv/program.py
Sum: 8
Subtraction: 2
Multiplication: 15
Division(float): 1.6666666666666667
Division(floor): 1
Modulus: 2
Exponent: 125

Process finished with exit code 0
```



The screenshot shows the PyCharm IDE with a file named `PractAssignment1.py` open. The code defines variables `a = 9` and `b = 5`, and then prints the results of various comparison operations. The Run window on the right shows the output of the program.

```
1 # Comparison operators
2
3 a = 9
4 b = 5
5 print('a > b is', a > b)
6 print('a < b is', a < b)
7 print('a == b is', a == b)
8 print('a != b is', a != b)
9 print('a >= b is', a >= b)
10 print('a <= b is', a <= b)
```

Run: program

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/PycharmProjects/assignments/venv/PractAssignment1.py
a > b is True
a < b is False
a == b is False
a != b is True
a >= b is True
a <= b is False

Process finished with exit code 0
```

The screenshot shows the PyCharm IDE with a Python script named `program.py` open. The script contains two sections: **Logical Operators** and **Bitwise Operator**. The **Logical Operators** section defines `a = 7` and `b = 4`, then prints the results of `a and b`, `a or b`, and `not a`. The **Bitwise Operator** section defines `a = 4` and `b = 6`, then prints the result of `a & b`. The **Identity Operator** section defines `a = 7` and `b = 7.5`, then prints the results of `is` and `is not` operators. The **Run** window on the right shows the output of the script, which matches the printed statements in the code. The process finished with exit code 0.

```
1 # Logical Operators
2 a = 7
3 b = 4
4 print('a and b is', a and b)
5 print('a or b is', a or b)
6 print('not a is', not a)
7
8 # Bitwise Operator
9 a = 4
10 b = 6
11 print('a & b is', a & b)
12
13 # Identity Operator
14 # Using 'is' identity operator
15 a = 7
16 if (type(a) is int):
17     print('True')
18 else:
19     print('False')
20
21 # Using 'is not' identity operator
22 b = 7.5
23 if (type(b) is not int):
24     print('True')
25 else:
26     print('False')
27
28
```

Run: program

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/Py
a and b is 4
a or b is 7
not a is False
a & b is 4
True
True

Process finished with exit code 0
```

The screenshot shows the PyCharm IDE with a Python script named `program.py` open. The script contains two sections: **Membership Operator** and **Conditional Statements**. The **Membership Operator** section defines a string `str = 'Python operators'` and a dictionary `dicts = {'June': 12, 'Dec': 12}`, then prints the results of `in` and `not in` operators. The **Conditional Statements** section defines `i = 10` and `i = 20`, then prints the results of `if` and `if-else` statements. The **Run** window on the right shows the output of the script, which matches the printed statements in the code. The process finished with exit code 0.

```
1 # Membership Operator
2 str = 'Python operators'
3 dicts = {'June': 12, 'Dec': 12}
4 print('P' in str)
5 print('Python' in str)
6 print('python' not in str)
7 print(6 in dicts)
8 print('Dec' in dicts)
9
10 # Conditional Statements
11
12 # Python program to illustrate If statement
13 i = 10
14 if (i > 15):
15     print("10 is less than 15")
16     print("I am Not in if")
17
18 # Python program to illustrate If else statement
19 i = 20;
20 if (i < 15):
21     print("i is smaller than 15")
22     print("i'm in if Block")
23 else:
24     print("i is greater than 15")
25     print("i'm in else Block")
26     print("i'm not in if and not in else Block")
27
28
```

Run: program

```
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe C:/Users/HP/Py
True
True
True
True
False
I am Not in if
i is greater than 15
i'm in else Block
i'm not in if and not in else Block

Process finished with exit code 0
|
```

