enter the first number : 5

Enter the second number : 6

Addition : 11

Subtraction : -1

multiplication : 30

division : 0.833333

Date: 8/9/23

Task 5.1

Running python script and various operations in interactive interpreter.

Aim: To run python script and various expressions in an interactive interpreter.

Algorithm:

1. Start
2. Get two numbers and store it in variable x and y
3. For subtraction do: x - y and print it.
4. For addition: x + y print it
5. For multiplication: x * y print it
6. For division do: x / y and print it
7. Stop

```
x = int(input("Enter the first number:"))
y = int(input("Enter the second number:"))
add = x + y
sub = x - y
mul = x * y
div = x / y
    print("addition:", add)
    print("subtraction:", sub)
    print("multiplication:", mul)
    print("division:", div)
```

Result:

Thus the python program for arithmetic operation is successfully executed.

OUTPUT

Enter the first number = 5

Enter the second number = 6

Enter the third number = 7

5 > 6 is false

5 < 6 is true

7 == 5 is false

7 != 6 is true

5 >= 6 is false

6 <= 5 is false

TASK 5.2

Create a python program, to enter two number and then perform and the following relational expression: >, <, ==, != , >=, <=

Algorithm:

1. Start
2. Get the input from the user and store it in a, b, c
3. perform relational operations (>, <, =, ==, !=, >=, <=)
4. Print result
5. Stop

```
a = int(input("Enter the first number="))
b = int(input("Enter the second number="))
c = int(input("Enter the third number="))
print(a, ">", b, "is", a>b)
print(b, "<", b, "is", a<b)
print(a, "!=", b, "is", c==a)
print(c, "==", b, "is", c!=b)
print(a, ">=", b, "is", a>=b)
print(b, "<=", a, "is", b<=a)
```

Result:

Thus the program for relational operations is successfully executed

Output

Enter first number : 5

Enter second number : 6

Enter third number 17

Logical operations Results:

false

false

true

true

TASK 5.3

Create a python program to enter three numbers and then perform and display the results of the following logical operations: and, or, not:

Algorithm:

1. Start
2. Get the input from the user
3. perform logical operations on the inputs
4. Print the results.
5. Stop

Program:

```
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
c = int(input("Enter third number: "))
print("In logical operations Results:")
print((a>b) and (b>c))
print((a>b) or (b<c))
print(not(a>b))
print(not(b>c)).
```

VEL TECH - CSE	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	3
VIVA VOCE (3)	3
RECORD (4)	4
TOTAL (15)	
SIGNATURE DATE	15

Result:

Thus, the python program to run python script and various expressions in an interactive interpreter was written and output was verified.