

Task-1: Running Python script and various expressions in an interactive interpreter

Aim:-

To run Python script and various expressions in an interactive interpreter.

a) Create a Python Program to enter two numbers and then performs and displays the results of the following operations: addition, subtraction, Multiplication, and division.

Algorithm:-

1. start
2. Get the two numbers and store it in variable x and y.
3. for addition do; $x+y$ and print it.
4. for subtraction do; $x-y$ and print it.
5. for Multiplication do; $x*y$ and print it.
6. for division do; x/y and print it.

Program:-

```
x = int(input("enter the first number:"))
```

```
y = int(input("enter the second number:"))
```

```
add = x + y
```

```
sub = x - y
```

```
pro = x * y
```

```
div = x / y
```

```
Print("Addition:", add)
```

```
Print("Subtraction:", sub)
```

```
Print("Multiplication:", pro)
```

```
Print("Division:", div)
```


output:-

Enter the first number: 5

Enter the second number: 6

Addition: 11

Subtraction: -1

Multiplication: 30

Division: 0.8333333333333334

```
X = int(input("Enter the first number:"))  
Y = int(input("Enter the second number:"))
```

add = x + y

sub = x - y

pro = x * y

div = x / y

print("Addition:", add)

print("Subtraction:", sub)

print("Multiplication:", pro)

b) Create a Python Program to enter two numbers and then performs and displays

The results of the following relational expression: $>$, $<$, $=$, $!=$, $>=$, $<=$

Algorithm:

1. start
2. Get the input from the user and store it in a, b & c
3. Perform the relational operations (i.e., $>$, $<$, $=$, $!=$, $>=$, $<=$)
4. Print the results
5. stop.

Program:

#initializing the value of a, b, and c

a = int(input("enter the first number:"))

b = int(input("enter the second number:"))

c = int(input("enter the Third number:"))

#using relational operations

Print(a, ">", b, "is", a > b)

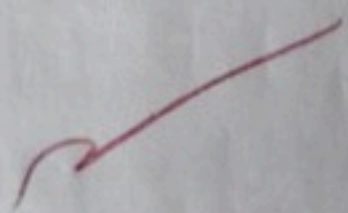
Print(a, "<", b, "is", a < b)

Print(c, "=", a, "is", c == a)

Print(c, "!= ", a, "is", c != b)

Print(a, ">=", b, "is", a >= b)

Print(b, "<=", a, "is", b <= a)



output:-

Enter the first number: 9

enter the second number: 4

enter the third number: 6

$9 > 4$ is True

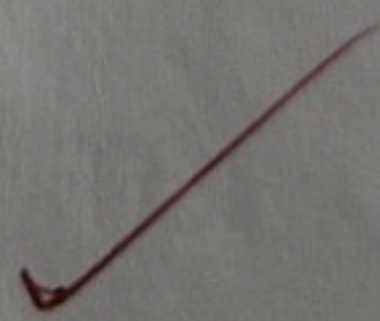
$9 < 4$ is false

$6 == 9$ is false

$6 != 9$ is true

$9 >= 4$ is True

$4 <= 9$ is True



b) C
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!
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Pro
#i
a=
b=
c=

P
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4

c) create a python program to enter three number and then performs and displays the results of the following logical operations: and, or, not.

Algorithm:-

1. start
2. Get the input from the user
3. Perform the logical operations on the inputs
4. Print the results.
5. stop.

Program:-

```
# Taking three numbers as input
a = int(input("enter the first number:"))
b = int(input("enter the second number:"))
c = int(input("enter the third number:"))

# Performing logical operations
Print("\n logical operations Results:")
Print (a > b and b > c)
Print (a > b or (b > c))
Print (not (a > b))
Print(not(a > b))
Print(not(b > c))
```

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|-------------------------|------|
| EX No. | |
| PERFORMANCE (5) | 5 |
| RESULT AND ANALYSIS (5) | 5 |
| VIVA VOCE (5) | 5 |
| RECORD (5) | 5 |
| TOTAL (20) | 20 |
| SIGN WITH DATE | 30/7 |

~~Print~~
Result:-

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

output:

Enter the first number: 6

Enter the second number: 7

Enter the Third number: 8

logical operations results:

False

false

True

True

```

// initializing the value of a, b and c
a = int(input("Enter the first number:"))
b = int(input("Enter the second number:"))
c = int(input("Enter the third number:"))

// using relational operators
print(a > b, a < b, a <= b, a >= b)
print(a < b, a > b, a <= b, a >= b)
print(c == a, c != a, c == b, c != b)
print(c == a, c != a, c == b, c != b)
print(c < a, c > a, c <= a, c >= a)
print(c < a, c > a, c <= a, c >= a)

```