

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 either two numbers and then performs and displays the result, of the following operations: additions, 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.
7. Stop.

Output:-

Enter the First number: 5

Enter the second number: 6

Addition: 11

Subtraction: -1

Multiplication: 30

Division: 0.83333333

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

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

(6 < 5, "is not true") True
(5 < 6, "is not true") True
(7 < 5, "is not true") True
(7 < 6, "is not true") True

b. Create a python program to enter two number and then performs and displays the results of the following relation expression: $>, <, =, \neq, \geq, \leq$

Algorithm:

1. Start
2. Get the input from the user and store it in a, b & c.
3. Perform the relational operation (i.e., $>, <, =, \neq, \geq, \leq$).
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 operators

```
print(a, ">", b, "is", a > b)
```

```
print(a, "<", b, "is", a < b)
```

```
print(c, "=", "is", c == b)
```

```
print(a, ">=", b, "is", a >= b)
```

```
print(b, "<=", a, "is", b <= a)
```

Output:-

Enter the First number: 5

Enter the second number: 6

Enter the Third number: 7

logical operation results.

False

False

True

True

```
def main():
    print("Enter the first number:")
    a = int(input())
    print("Enter the second number:")
    b = int(input())
    print("Enter the third number:")
    c = int(input())
```

```
    print("a < b")
    print(a < b)
    print("a < c")
    print(a < c)
    print("a < b & a < c")
    print(a < b & a < c)
    print("a < b & a < c & a < d")
    print(a < b & a < c & a < d)
```

c. Create a python program to enter three numbers 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 operation.
print("\nLogical Operations Result:")
print((a > b) and (b < c))
print((a > b) or (b < c))
print(not(a > b))
print(not(b < c))
```

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EX No.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (3)	
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TOTAL (15)	
DATE WITH DESK	

Result:-

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