

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.
7. stop.

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



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, "!= b, "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

$5 > 6$ is False

$5 < 6$ is True

$7 == 5$ is False

$7 != 6$ is True

$5 >= 6$ is False

$6 <= 5$ is False

Print ("Enter the first number")
Print ("Enter the second number")



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 operations
print("\n logical operations results:")
print((a > b) and (b > c))
print((a > b) or (b > c))
print(not (a > b))
print(not (b > c))
```

Result:-

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



| VEL : ECH | |
|-------------|------|
| No. | 1 |
| PERFORMANCE | 5 |
| INFLUENCE | 5 |
| OCF | 5 |
| RD | 5 |
| TOTAL | 20 |
| AVERAGE | 4 |
| | 30/4 |

Output :-

Enter the first number : 5

Enter the second number : 6

Enter the third number : 7

Logical operations : Results

False

False

True

True

```
("Enter the first number:")
print(a)
("Enter the second number:")
print(b)
("Enter the third number:")
print(c)

(a < b)
(a < c)
(b < c)
(a == b)
(a == c)
(b == c)
(a != b)
(a != c)
(b != c)
(a > b)
(a > c)
(b > c)
```