



Name: Vinayak Kumar Singh

Register No: 23MCA1030

Subject: Python LAB

Question: Operators in Python
Code

 operators.py X

 operators.py > ...

```
1  print("Register Number = 23MCA1030")
2  print("Name = Vinayak Kumar Singh")
3  # Arithmetic Operators Example
4  a = 95
5  b = 5
6  print("Arithmetic Operators Example")
7  addition = a + b
8  print("Addition:", addition)
9  subtraction = a - b
10 print("Subtraction:", subtraction)
11 multiplication = a * b
12 print("Multiplication:", multiplication)
13 division = a / b
14 print("Division:", division)
15 modulus= a % b
16 print("Modulus:", modulus)
17
18 # Assignment Operators Example
19 c = 150
20 print("Assignment Operators Example")
21 print("c value:" ,c)
22 c += 5
23 print("After Addition Assignment:", c)
24 c -= 3
25 print("After Subtraction Assignment:", c)
26 c *= 4
27 print("After Multiplication Assignment:", c)
28 c /= 2
29 print("After Division Assignment:", c)
30 c %= 3
31 print("After Modulus Assignment:", c)
32
```

```

33 # Comparison Operators Example
34 x = 10
35 y = 5
36 print("Comparison Operators Example")
37 print("Equal to Operators (10==5):", x == y)
38 print("Not equal to Operators (10!=5):", x != y)
39 print("Less than Operators (10<5):", x < y)
40 print("Greater than Operators (10>5):", x > y)
41 print("Less than or equal to Operators (10<=5):", x <= y)
42 print("Greater than or equal to Operators (10>=5):", x >= y)
43
44 # Logical Operators Example
45 num1 = 10
46 num2 = 5
47 print("Logical Operators Example")
48 logical_and_result = num1 > 0 and num2 < 10
49 print("Logical AND:", logical_and_result)
50 logical_or_result = num1 < 0 or num2 > 10
51 print("Logical OR:", logical_or_result)
52 logical_not_num1 = not num1 > 0
53 logical_not_num2 = not num2 < 10
54 print("Logical NOT (num1):", logical_not_num1)
55 print("Logical NOT (num2):", logical_not_num2)
56
57 # Identity Operators Example
58 p = [1, 2, 3]
59 q = p
60 r = [1, 2, 3]
61 print("Identity Operators Example")
62 result_1 = p is q
63 result_2 = p is r
64 print("p is q:", result_1)
65 print("p is r:", result_2)
66 not_result_1 = p is not q
67 not_result_2 = p is not r
68 print("p is not q:", not_result_1)
69 print("p is not r:", not_result_2)
70
71 # Membership Operators Example
72 my_list = [1, 2, 3, 4, 5]
73 print("Membership Operators Example")
74 in_result_1 = 3 in my_list
75 in_result_2 = 6 in my_list
76 print("3 in my list:", in_result_1)
77 print("6 in my list:", in_result_2)
78 not_in_result_1 = 3 not in my_list
79 not_in_result_2 = 6 not in my_list
80 print("3 not in my list:", not_in_result_1)
81 print("6 not in my list:", not_in_result_2)

```

Output

PROBLEMS OUTPUT TERMINAL

```
D:\MCA\6. Python Programming + LAB\LAB>python -u "d:\MCA\6. Python Programming + LAB\LAB\operators.py"
Register Number = 23MCA1030
Name = Vinayak Kumar Singh
Arithmetic Operators Example
Addition: 100
Subtraction: 90
Multiplication: 475
Division: 19.0
Modulus: 0
Assignment Operators Example
c value: 150
After Addition Assignment: 155
After Subtraction Assignment: 152
After Multiplication Assignment: 608
After Division Assignment: 304.0
After Modulus Assignment: 1.0
Comparison Operators Example
Equal to Operators (10==5): False
Not equal to Operators (10!=5): True
Less than Operators (10<5): False
Greater than Operators (10>5): True
Less than or equal to Operators (10<=5): False
Greater than or equal to Operators (10>=5): True
Logical Operators Example
Logical AND: True
Logical OR: False
Logical NOT (num1): False
Logical NOT (num2): False
Identity Operators Example
p is q: True
p is r: False
p is not q: False
p is not r: True
Membership Operators Example
3 in my list: True
6 in my list: False
3 not in my list: False
6 not in my list: True
```

```
D:\MCA\6. Python Programming + LAB\LAB>[]
```

END