

Fill in the blank in the Result column as shown in the below table for given Boolean expression with given values for variables.

variable: a and b

a=10

b=20

Expression	Result (True or False)
a==b	
a!=b	
a>b	
a<b	

Note: Please upload assignment in PDF format.

Step 1: Understand the Boolean Expressions

- **a == b**: Checks if a is equal to b.
- **a != b**: Checks if a is not equal to b.
- **a > b**: Checks if a is greater than b.
- **a < b**: Checks if a is less than b.

Step 2: Substitute the Values and Evaluate

- For **a == b**: Substitute a = 10 and b = 20. The expression becomes 10 == 20. This is **False**.
- For **a != b**: Substitute a = 10 and b = 20. The expression becomes 10 != 20. This is **True**.
- For **a > b**: Substitute a = 10 and b = 20. The expression becomes 10 > 20. This is **False**.
- For **a < b**: Substitute a = 10 and b = 20. The expression becomes 10 < 20. This is **True**.

Step 3: Fill in the Table

Based on the evaluation, the table should be filled in as follows:

Expression	Result (True or False)
a == b	False
a != b	True
a > b	False
a < b	True