PASCAL - RELATIONAL OPERATORS

Following table shows all the relational operators supported by Pascal. Assume variable **A** holds 10 and variable **B** holds 20, then −

Operator	Description	Example
=	Checks if the values of two operands are equal or not, if yes, then condition becomes true.	$A = B$ is not true.
<>	Checks if the values of two operands are equal or not, if values are not equal, then condition becomes true.	$A <> B$ is true.
>	Checks if the value of left operand is greater than the value of right operand, if yes, then condition becomes true.	$A > B$ is not true.
<	Checks if the value of left operand is less than the value of right operand, if yes, then condition becomes true.	$A < B$ is true.
>=	Checks if the value of left operand is greater than or equal to the value of right operand, if yes, then condition becomes true.	$A >= B$ is not true.
<=	Checks if the value of left operand is less than or equal to the value of right operand, if yes, then condition becomes true.	$A <= B$ is true.

Try the following example to understand all the relational operators available in Pascal programming language −

```pascal
program showRelations;
var
a, b: integer;

begin
   a := 21;
   b := 10;

   if a = b then
      writeln('Line 1 - a is equal to b' )
   else
      writeln('Line 1 - a is not equal to b' );

   if  a < b then
      writeln('Line 2 - a is less than b' )
   else
      writeln('Line 2 - a is not less than b' );

   if  a > b then
      writeln('Line 3 - a is greater than b' )
   else
      writeln('Line 3 - a is greater than b' );

   (* Lets change value of a and b *)
   a := 5;
   b := 20;

   if  a <= b then
      writeln('Line 4 - a is either less than or equal to b' );
```

```
   if ( b >= a ) then
      writeln('Line 5 - b is either greater than  or equal to ' );
end.
```

When the above code is compiled and executed, it produces the following result:

```
Line 1 - a is not equal to b
Line 2 - a is not less than b
Line 3 - a is greater than b
Line 4 - a is either less than or equal to b
Line 5 - b is either greater than or equal to b
```