Exercises

1. Given x = 1 and y = 3, write a program to print out the results of these expressions:
x += y, x += -y, x -= y, x -= -y, x *= y, and x *= -y.

2. Given x = 3 and y = 6, what is the value of z after the statement
z = x * y == 18;
is executed?

3. Write a program that initializes the integer variable x with 1 and outputs results
with the following two statements:
printf("x++ produces: %d\n", x++);
printf("Now x contains: %d\n", x);

4. Rewrite the program you wrote in exercise 3. This time, include the following two
statements:
printf("x = x++ produces: %d\n", x = x++);
printf("Now x contains: %d\n", x);
What do you get after running the executable of the program? Can you explain
why you get such a result?

5. The following program is supposed to compare the two variables, x and y, for
equality. What's wrong with the program? (Hint: Run the program to see what it
prints out.)
```
#include <stdio.h>
main()
{
int x, y;
x = y = 0;
printf("The comparison result is: %d\n", x = y);
return 0;
}
```