Homework 2

1. Convert the following if-else statement to switch statement.

2. Write a program that takes a 2-digit positive integer ($10\sim99$) from the user, and then checks if ten's digit number and one's digit number are the same or not.

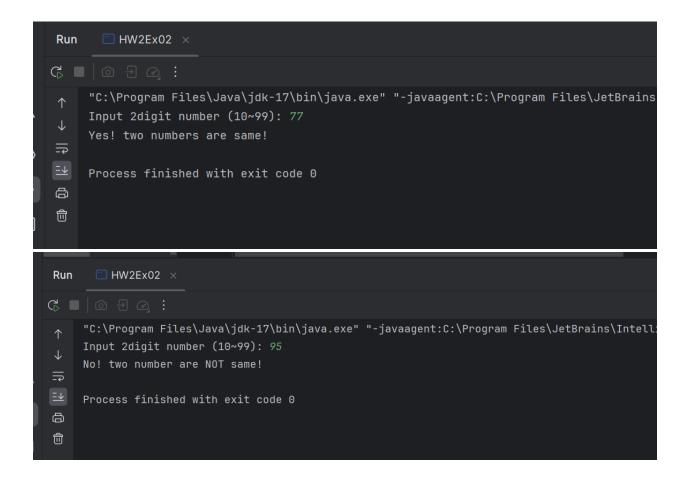
Example of how the input and output should look like:

```
Input 2digit number (10~99): 77
Yes! two numbers are same!
Input 2digit number (10~99): 95
No! two numbers are NOT same!
```

```
package homework;
import java.util.Scanner;
public class HW2Ex02 {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);

        System.out.print("Input 2digit number (10~99): ");
        int num = scan.nextInt();

        if (num % 11 == 0) {
            System.out.println("Yes! two numbers are same!");
        }else {
            System.out.println(("No! two number are NOT same!"));
        }
    }
}
```



3. Write a simple calculator program. The available arithmetic operators should be +, -, *, and / operators. Operands and operators must be separated by whitespaces. The program must print the "Cannot divide by 0" string when a user tries to use the "divide by 0" operation.

Use a switch-case statement.

Example of how the input and output should look like:

```
Operation >>100 / 2

100/2= 50

Operation >>500 * 30

500*30= 15000

Operation >>300 - 200

300-200= 100

Operation >>1 / 0

cannot divide by 0.
```

