Bonus point assignment - week 2

Create a java program that accepts user input and presents a menu with options.

- 1. Is number odd?
- 2. Is number a power of 2?
- 3. Two's complement of number?

Implement the methods by using the bitwise operators you have just learned.

Organize your source code in a readable manner with the use of control flow and methods.

Paste source code here, with a screenshot of a working application.

```
public static void main(String[] args) {
    int number = 5;
    System.out.println(number);
    oddOrEven(number);
    powerOff2(number);
    twoComplement(number);
    System.out.println();
    number = 8;
    System.out.println(number);
    oddOrEven(number);
    powerOff2(number);
    twoComplement(number);
public static void oddOrEven(int number) {
    if ((number & 1) == 1) {
        System.out.println("Number is odd");
    } else {
        System.out.println("Number is even");
    }
public static void powerOff2(int number) {
    if ((number & (number - 1)) == 0) {
        System.out.println("Number is a power of 2");
        System.out.println("Number isn't a power of 2");
public static void twoComplement(int number) {
    int x = \sim number + 1;
    System.out.println("Two complement of five (to negative): " + x);
    int y = \sim x + 1;
    System.out.println("Again two complement of the negative five (to
positive): " + y);
```

```
Number is odd

Number isn't a power of 2

Two complement of five (to negative): -5

Again two complement of the negative five (to positive): 5

8

Number is even

Number is a power of 2

Two complement of five (to negative): -8

Again two complement of the negative five (to positive): 8

Process finished with exit code 0
```