

Template Week 2 – Logic

Student number: 566780

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.

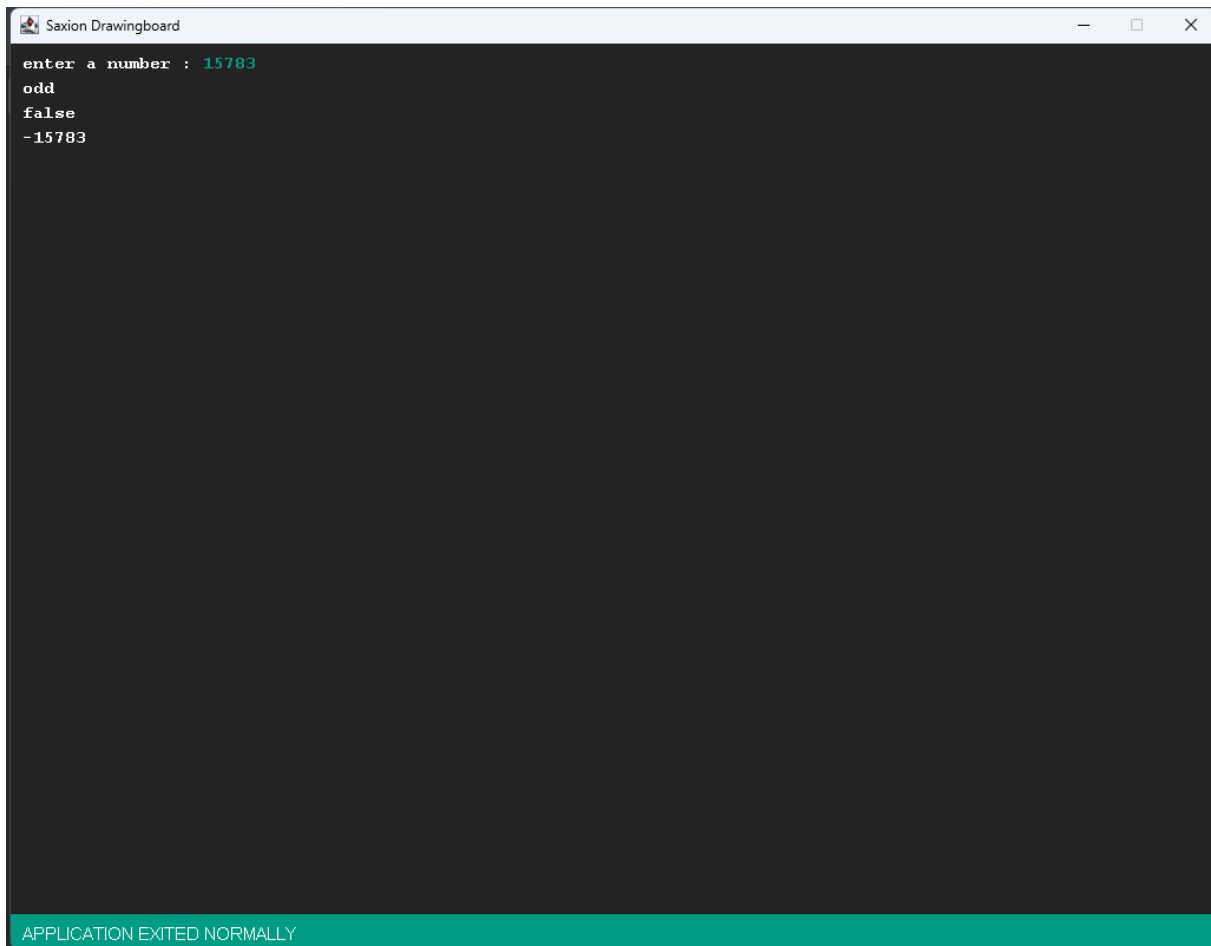
Paste source code here, with a screenshot of a working application.

```
SaxionApp.print("enter a number : ");
int number = SaxionApp.readInt();
isOdd(number);
SaxionApp.println(isPowerOfTwo(number));
SaxionApp.println(complemnetOfTwo(number));
}

public void isOdd(int number) {
    if ((number & 1) == 1) {
        SaxionApp.println("odd");
    } else {
        SaxionApp.println("even");
    }
}

public boolean isPowerOfTwo(int number) {
    return number > 0 && (number & (number - 1)) == 0;
}

public int complemnetOfTwo(int number){
    return ~number + 1;
}
```



```
enter a number : 15783
odd
false
-15783
```

APPLICATION EXITED NORMALLY