Shobhit Tulshain
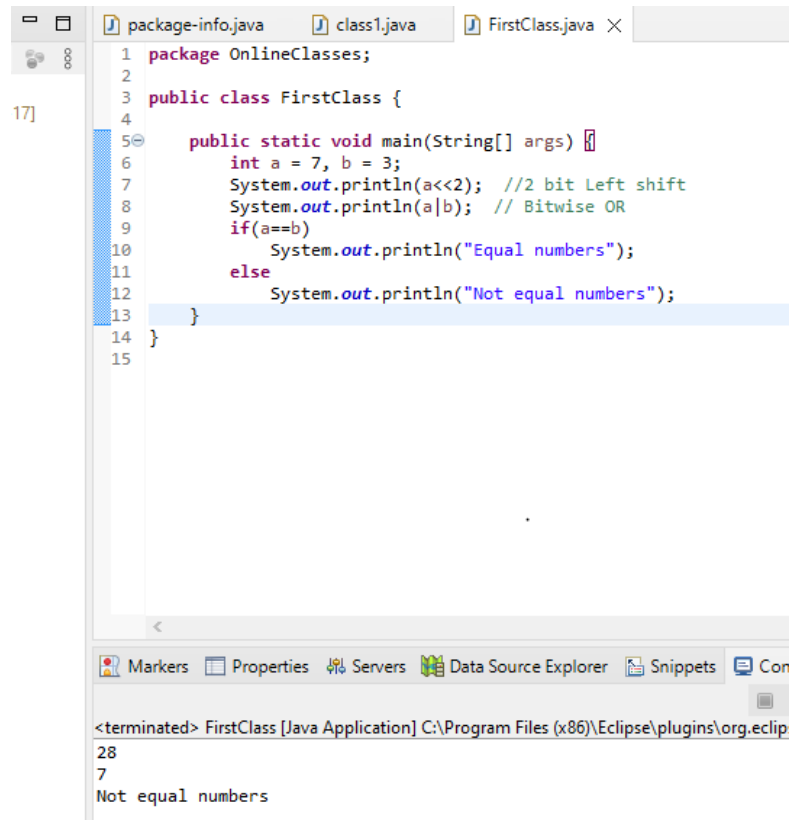
1.
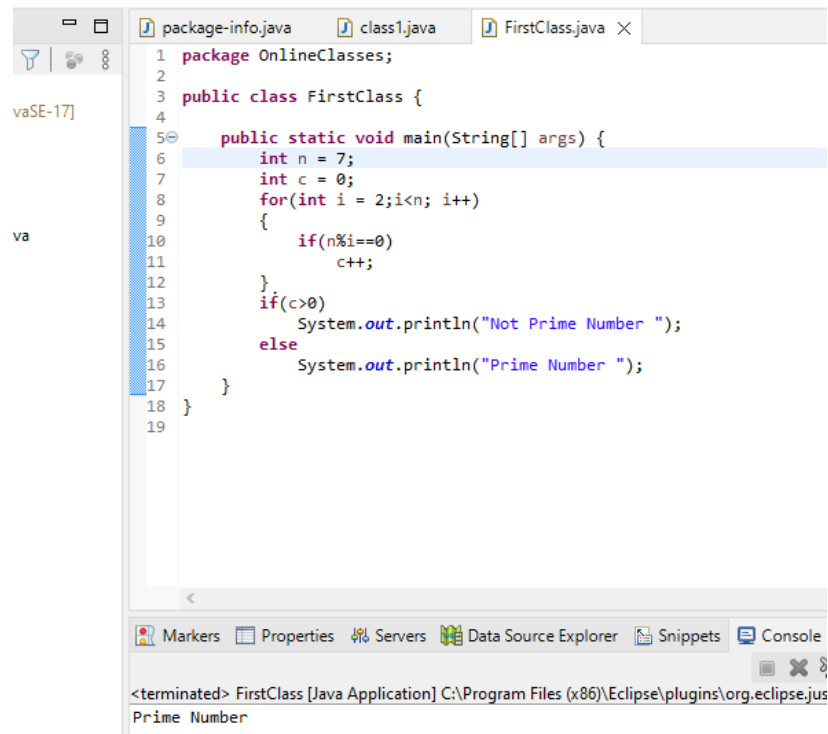
```java
package OnlineClasses;

public class FirstClass {

    public static void main(String[] args) {
        int a = 7, b = 3;
        System.out.println(a<<2);  //2 bit Left shift
        System.out.println(a|b);  // Bitwise OR
        if(a==b)
            System.out.println("Equal numbers");
        else
            System.out.println("Not equal numbers");
    }
}
```

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```
28
7
Not equal numbers
```

2.

```java
package OnlineClasses;

public class FirstClass {

    public static void main(String[] args) {
        int n = 7;
        int c = 0;
        for(int i = 2;i<n; i++)
        {
            if(n%i==0)
                c++;
        }
        if(c>0)
            System.out.println("Not Prime Number ");
        else
            System.out.println("Prime Number ");
    }
}
```

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```
Prime Number
```

3.

```
package OnlineClasses;

public class FirstClass {

    public static void main(String[] args) {
        int a = 2008;
        if((a%4==0) && (a%100!=0)||(a%400==0))
            System.out.println("Leap Year");
        else
            System.out.println("Not Leap Year");
    }
}
```

Leap Year

4.

```
package OnlineClasses;

public class FirstClass {

    public static void main(String[] args) {
        int s = (10*(10+1))/2;
        System.out.println("Sum of first 10 numbers: " + s);
    }
}
```

Sum of first 10 numbers: 55

5.

```java
package OnlineClasses;

public class FirstClass {

    public static void main(String[] args) {
        int s = 2;
        int a=2, b=3;
        switch(s) {
        case 1:
            System.out.println("Sum: " + (a+b));
            break;
        case 2:
            System.out.println("Diff: " + (a-b));
            break;
        case 3:
            System.out.println("Product: " + (a*b));
            break;
        case 4:
            System.out.println("Sum: " + (a+b));
            break;
        default:
            System.out.println("Invalid Choice");
        }
    }
}
```

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Diff: -1