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Q.1How to check Even and Odd numbers in java using object oriented approach?

ANS. To check Even and Odd number in java we use (IF, ELSE) for Example

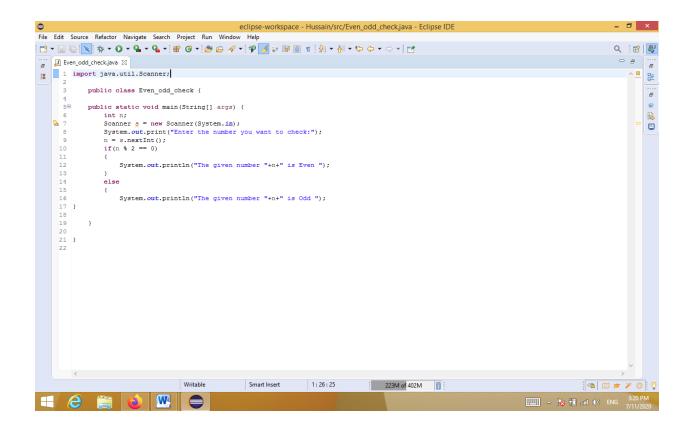
To make the program we will take these important steps:

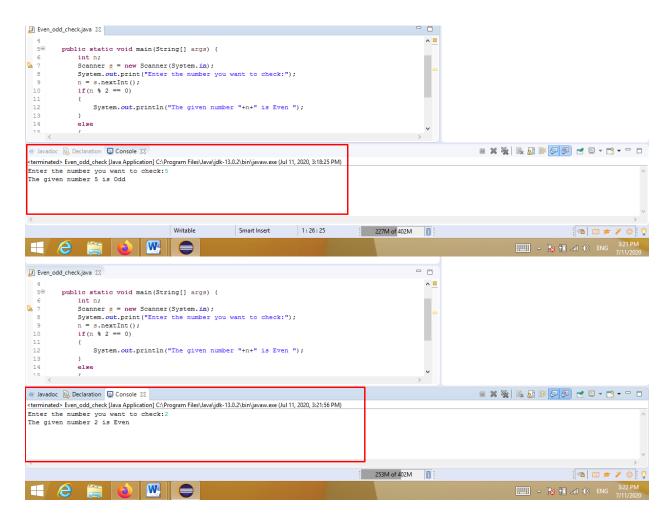
we use IF statement

Else Statement

```
else
{
    System.out.println("The given number is Odd ");
```

Program in Eclipse with output





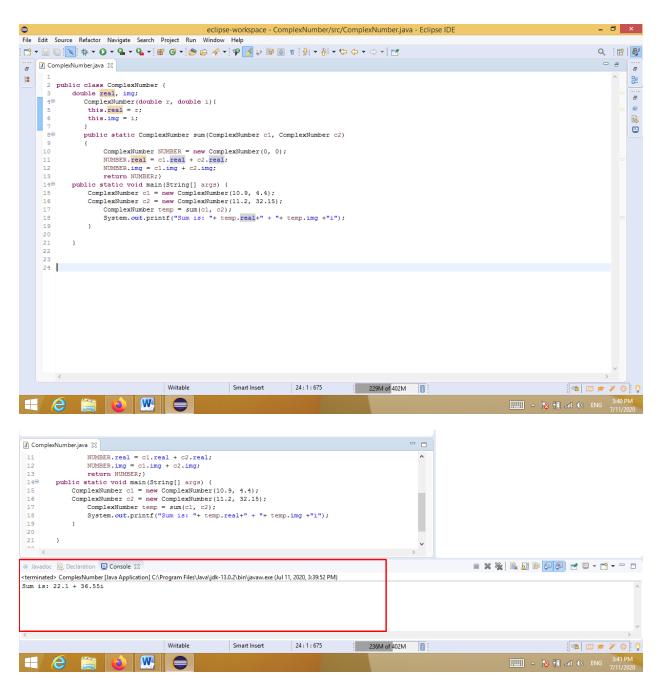
Q.2How to add 2 complex numbers in java using object oriented approach?

ANS. Complex numbers have two parts — real part and imaginary part. When adding complex numbers we add real parts together and imaginary parts together. In this program we have a class <code>ComplexNumber</code>. In this class we have two instance variables real and <code>imaginary</code> to hold the real and imaginary parts of complex numbers.

We have declared a method sum() to add the two numbers by adding their real and imaginary parts together.

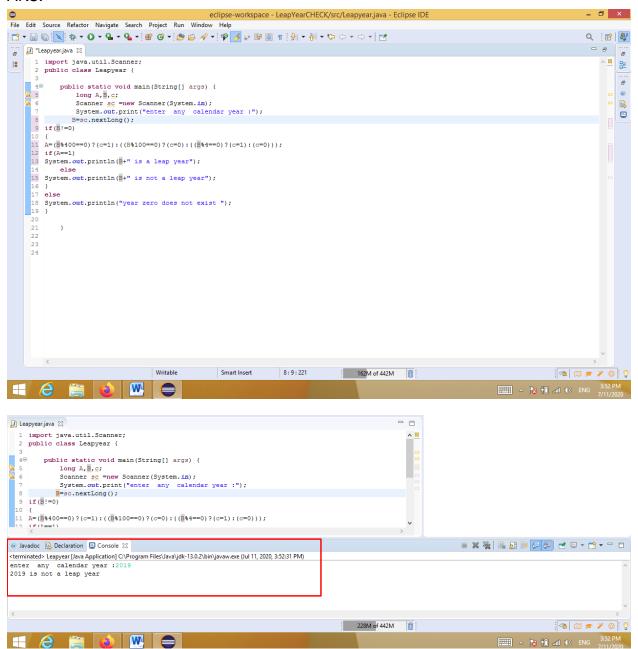
The constructor of this class is used for initializing the complex numbers. For e.g. when we create an instance of this class like this ComplexNumber NUMBER = new ComplexNumber (0, 0);, it actually creates a complex number 0 + 0i.

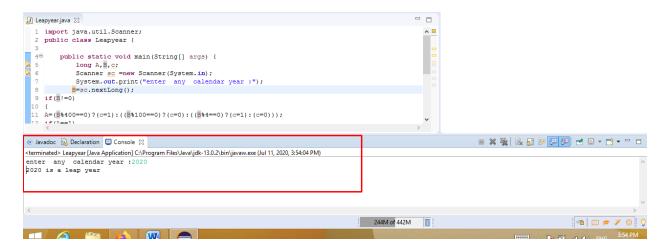
Program in Eclipse:



Q.3How to check Leap year in java using object oriented approach

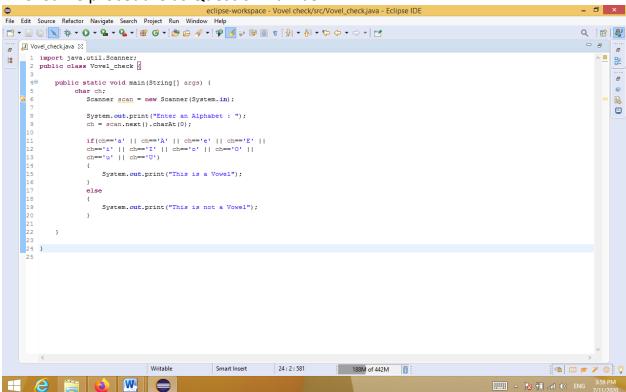
ANS.

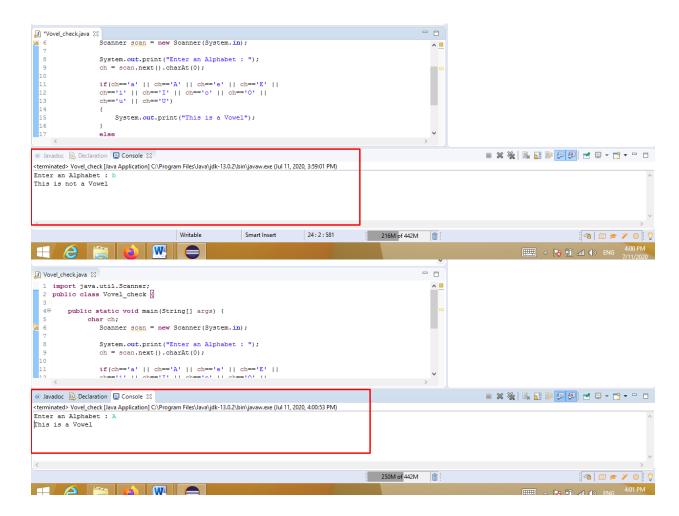




Q.4How to check that the input from the user is the vowel or not in java using object oriented approach?

ANS. Same procedure as Question number 1





q.5How to use power of a number in java using object oriented approach? Ans.

Read the base and exponent values from the user. Multiply the base number by itself and multiply the resultant with base (again) repeat this n times where n is the exponent value.

