1. Write depended java classes to get below Main.java compile, run and get expected output.

public class Main { public static void main(String [] str) { Number n1 = new Number(10); Number n2 = new Number(20); Number n3 = new Number(); //Number should init with value 0;

```
    Number n3 = MathOperation.addition(n1, n2);
    System.out.println("Addition of " + n1 + " and " + n2 + " is : " + n3);

    Number n4 = MathOperation.multiply(n3, n2);
    System.out.println("Multiplication of " + n3 + " and " + n2 + " is : " + n4);

    if(n4.greaterThan(n1))
    {
        n1.setNumber(n4.getNumber());
    }

    System.out.println("Finally n1=" + n1);
}

}
```

2. Update previous program to add Subtraction and Division function in MathOperation class. Also update main class to take 2 numbers from command line and ask user which option to perfrom (Menu driven)

3. Write below pattern using recursion.

   1 1 2 1 1 2 1 2 1 1 2 1 1

4. Write a menu driven Java program to print histogram of vowels for an user input string.