```java
package com.torryharris;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("enter a year");
        int y=sc.nextInt();
        if (y%400==0)
            System.out.println(y+" id a leap year");
        if (y%100==0)
            System.out.println(y+ " is not a leap year");
        if (y%4==0)
            System.out.println(y+" is a leap year");
        else
            System.out.println(y+" not a leap year");
```

```
Connected to the target VM, address: '127.0.0.1
enter a year
2020
2020 is a leap year
Disconnected from the target VM, address: '127.0

Process finished with exit code 0
```

```java
int number, originalNum, rem, result = 0;
System.out.println("Enter any number : ");
number = sc.nextInt();
originalNum = number;
while (originalNum != 0) {
    rem = originalNum % 10;
    result += Math.pow(rem, 3);
    originalNum /= 10;
}
if (result == number) {
    System.out.println(number + " is an Armstrong Number.");
} else {
    System.out.println(number + " is not an Armstrong Number.");
}
```

```
Connected to the target VM, address: '127.0.0.1
Enter any number :
153
153 is an Armstrong Number.
Disconnected from the target VM, address: '127.(


Process finished with exit code 0
```

```java
int n;
System.out.println("Enter any number : ");
n = sc.nextInt();
for(int i=1;i<=10;i++)
{
    System.out.println(n+" * "+i+" = "+n*i);
}
```

```
"C:\Program Files\Java\jdk1.8.0\bin\java.exe"
Connected to the target VM, address: '127.0.0.1
Enter any number :
5
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50
Disconnected from the target VM, address: '127.

Process finished with exit code 0
```

```java
int n1, n2, temp, temp1, temp2, hcf, lcm;
        System.out.println("Enter the first number : ");
        n1 = sc.nextInt();
        System.out.println("Enter the second number : ");
        n2 = sc.nextInt();
        temp1 = n1;
        temp2 = n2;
        while(temp2 != 0)
        {
            temp = temp2;
            temp2 = temp1%temp2;
            temp1 = temp;
        }
        hcf = temp1;
        lcm = (n1*n2)/hcf;
        System.out.println("HCF of "+n1+" and "+n2+" is : "+hcf);
        System.out.println("LCM of "+n1+" and "+n2+" is : "+lcm);
    }
}
```

```
"C:\Program Files\Java\jdk1.8.0\bin\java.exe" .
Connected to the target VM, address: '127.0.0.1
Enter the first number :
44
Enter the second number :
33
HCF of 44 and 33 is : 11
LCM of 44 and 33 is : 132
Disconnected from the target VM, address: '127.0

Process finished with exit code 0
```