Simple Java program

```java
import java.io.*;

class MYInteger{
 private int value;
 MYInteger(int i){
  value = i;
 }
}

public class IntegerTest {
public static void main(String args [] ){
 int integer1 =77;
 Integer i1 = new Integer(integer1);
 Integer i2 = new Integer(integer1);
 System.out.println("\n  i1==i2 " + (i1==i2) );
 System.out.println(" i1.equals(i2) " + (i1.equals(i2)) );
 System.out.println("\n The binary  of " +integer1 +" is " +Integer.toBinaryString(integer1) );
 System.out.println(" The Octalof " +integer1 +" is " +Integer.toOctalString(integer1) );
 System.out.println(" The Hex  of " +integer1 +" is " +Integer.toHexString(integer1) );
```

Simple Java program   2

```java
/****  Con't/
    MYInteger mi1 = new MYInteger(integer1);
 MYInteger mi2 = new MYInteger(integer1);
 System.out.println(" \n mi1==mi2 " + (mi1==mi2) );
 System.out.println(" mi1.equals(mi2) " + (mi1.equals(mi2)) );
 /***/

int max32 = Integer.MAX_VALUE;
System.out.println("\n\n\n The binary of " +max32 +" is " +Integer.toBinaryString(max32) );
 System.out.println(" \n The Octal  of " +max32 +" is " +Integer.toOctalString(max32) );
 System.out.println("\n The Hex  of " +max32 +" is " +Integer.toHexString(max32) );

 int min32= Integer.MIN_VALUE;
 System.out.println("\n\n\n The binary of " +min32 +" is " +Integer.toBinaryString(min32) );
  System.out.println(" \n The Octal  of " +min32bit +" is " +Integer.toOctalString(min32) );
 System.out.println("\n The Hex  of " +min32 +" is " +Integer.toHexString(min32) );

}
}
```

Simple Java program   3

How to run it?

1. http://java.sun.com/docs/books/tutorial/getStarted/cupojava/win32.html
2. Run "Hello Java" Example
3. Then compile our java example by typing

```
javac TestInteger.java
```

4. To run it type

```
java  TestInteger
```

```
Note the filename is
case sensitive!
```

Simple Java program   4

```
G:\MyData\CCNYCOURSES\cs342_SPring2007\Lec03_Feb_07_2007>javac IntegerTest.java

G:\MyData\CCNYCOURSES\cs342_SPring2007\Lec03_Feb_07_2007>java IntegerTest

 i1==i2 false
 i1.equals(i2) true

The binary representation of 77 is 1001101
The Octal representation of 77 is 115
The Hex representation of 77 is 4d

mi1==mi2 false
mi1.equals(mi2) false


The binary representation of 2147483647 is 1111111111111111111111111111111

The Octal representation of 2147483647 is 17777777777

The Hex representation of 2147483647 is 7fffffff


The binary representation of -2147483648 is 10000000000000000000000000000000

The Octal representation of -2147483648 is 20000000000

The Hex representation of -2147483648 is 80000000
```