

* Write Program to convert a decimal number to binary format.

```
public class DecimalToBinary {  
    public static void main to Binary (int decimal) {  
        int binary [] = new int [40];  
        int index = 0;  
        while (decimal > 0) {  
            binary [index++] = decimal / 2;  
            decimal = decimal / 2;  
        }  
    }
```

```
    for (int i = index - 1; i >= 0; i--) {  
        System.out.print (binary [i]);  
    }
```

```
    System.out.println();  
}
```

```
public static void main (String args []) {
```

```
    System.out.println ("Decimal of 10 is:");  
    to Binary (10);
```

```
    System.out.println ("Decimal of 21 is:");  
    to Binary (21);
```

```
    System.out.println ("Decimal of 31 is:");  
    to Binary (31);
```

```
}
```

```
}
```

Output:-

Decimal of 10 is:

1010

Decimal of 21 is:

10101

Decimal of 31 is:

11111

* Is it possible to start a thread twice?
 Explain with a code

Ans No. After starting a thread, it can never be started again. If you do so, an `IllegalThreadStateException` is thrown. In such case, thread will run once for second time, it will throw exception.

Example:-

```
public class TestThread extends Thread {
    public void run() {
        System.out.println("Running...");
    }
    public static void main (String args[]) {
        TestThread t1 = new TestThread();
        t1.start();
        t1.start();
    }
}
```

Output: - running
 Exception in thread "main" java.lang.IllegalThreadStateException.