**Java program for decimal to octal conversion**

1) Using predefined method [Integer.toOctalString(int num)](http://docs.oracle.com/javase/7/docs/api/java/lang/Integer.html#toOctalString%28int%29)  
2) Writing our own logic for conversion

import java.util.Scanner;

class DecimalToOctalExample

{

public static void main(String args[])

{

Scanner input = new Scanner( System.in );

System.out.print("Enter a decimal number : ");

int num =input.nextInt();

/\* Method 1:

\* Using predefined method toOctalString(int)

\* Pass the decimal number to this method and

\* it would return the equivalent octal number

\*/

String octalString = Integer.toOctalString(num);

System.out.println("Method 1: Decimal to octal: " + octalString);

/\* Method 2:

\* Writing your own logic: Here we will write

\* our own logic for decimal to octal conversion

\*/

// For storing remainder

int rem;

// For storing result

String str="";

// Digits in Octal number system

char dig[]={'0','1','2','3','4','5','6','7'};

while(num>0)

{

rem=num%8;

str=dig[rem]+str;

num=num/8;

}

System.out.println("Method 2: Decimal to octal: "+str);

}

}

**Output:**

Enter a decimal number : 123

Method 1: Decimal to octal: 173

Method 2: Decimal to octal: 173