# 05. PROBLEM:

To convert a decimal to binary number.

# SOURCECODE:

package assignment;

import java.io.\*;

public class assignment5

{

public static void main(String args[])throws IOException

{

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

System.out.println("Enter the number to convert in binary:");

String str=br.readLine();

int x=Integer.parseInt(str);

int i=0;

int a[];

a=new int[10];

while(x>0)

{

a[i]=x%2;

x=x/2;

i++;

}

System.out.println("The Binary no.");

for(int j=9;j>=0;j--)

{

System.out.print(a[j]);

}

}

}

# OUTPUT:

Enter the number to convert in binary:

25

The Binary no.

0000011001

# DISCUSSION:

1.First here we import io package of java for doing io operations.

2.Here we create class assignment5 and in main we take the number to convert in binary from the user using bufferedreader.

3.As we know BufferedReader generate IOException so at the declaration of main method we throw IOException so that it can not generate any exception in the program.

4.Here we take an integer array “a” and allocated memory in it.In that array we allocate the resulting binary numbers one by one.