

Exercise 4: (HOMEWORK)

Write a java program that reads an integer decimal number smaller than 32 and prints the equivalent representation in binary system.

Hint: use five variables to store the value of the binary digits.

Example:

Enter an integer number smaller than 32 > 12

The equivalent in binary = 01100

Solution:-

```
import java.util.Scanner;

public class lab4ex4 {
    public static void main(String[] args) {
        Scanner S = new Scanner(System.in);

        int dec;
        int bin1,bin2,bin3,bin4,bin5;

        System.out.print("Enter a number in decimal < 32: ");
        dec = S.nextInt();

        bin1 = dec % 2;
        dec = dec / 2;
        bin2 = dec % 2;
        dec = dec / 2;
        bin3 = dec % 2;
        dec = dec / 2;
        bin4 = dec % 2;
        dec = dec / 2;
        bin5 = dec % 2;

        System.out.println("the number in binary = "
            +bin5+bin4+bin3+bin2+bin1);
    }
}
```