## **PROBLEM 3**

## Binary to Decimal Converter

A binary number is a sequence of bits (binary digits - 0's and 1's) of the form BnBn-1.....B1 B0, where each Bi is a bit.

The decimal equivalent is calculated by Bn \* 2n+ Bn-1 \* 2n-1 + ... + B1 \* 2 + B0.

Write a program to input a binary number and output the decimal equivalent.

The sample input will not have more than 8 individual bits (i.e., the largest value to be entered is 11111111).

## Example 1

Enter binary number: 101

In decimal: 5

## Example 2

Enter binary number: 11111

In decimal: 31