**Python Lab 3**

1. Write a program to Convert a binary number taken as user input into its decimal equivalent.

**User Input: 101010**

**Output: 42**

1. Write the Python code and using Recursion/Iterations solve the problem stated in Program 2.
2. Given the decimal number 168, represent it using octal and hexadecimal literals.
3. Write a Python Program (to implement the concept of function overloading) *having 1 function* ‘***calculate price***’ that calculates the final price of an item after applying the discount.

If only the original price is provided by the user, calculate the price after applying 10 % discount.

If the original price and a discount percentage are provided by the user, calculate the price after applying the provided Discount.

1. Write a Python program that takes a floating-point value as input from the user and outputs the binary equivalent of that number (up to 10 digits).

For example:

***Input: 2.2***

***Output: 10.00110011000***