

## CSE 110

### Online Problems for C Language: Loop

#### Subsection: A2

**Time: 50 Minutes**

**Full Marks: 20**

1. Write a program that takes an integer decimal number  $n$  ( $1 \leq n \leq 9$ ) as input and display the following pattern for  $n$  number of rows. [Marks: 10]

Sample Input	Corresponding Output
1	1
2	1 1 2 3
3	1 1 2 3 1 2 3 4 5

2. Write a C program that takes two integer numbers as input and determines the number of positions where both numbers contain same bits in their binary representation. Consider the rightmost position of two binary representations as the 1<sup>st</sup> position. For example, the binary representation of the numbers 11 and 7 are 1011 and 111 respectively. So, there are two positions where the bits are same. So, the answer is 2. [Marks: 10]

Sample Input	Corresponding Output
5 10	0
2 15	1
7 5	2