## Convert the characters of your name into decimal values

‘K’ = 75

‘I’ = 105

‘r’ = 114

‘I’ = 105

‘l’ = 108

## Problem 2. Converting the numbers from decimal to binary system

K i r i l

75/2 = 37 (1) 105/2 = 52 (1) 114/2 = 57 (0) 105/2 = 52 (1) 108/2 = 54 (0)

37/2 = 18 (1) 52/2 = 26 (0) 57/2 = 28 (1) 52/2 = 26 (0) 54/2 = 27 (0)

18/2 = 9 (0) 26/2 = 13 (0) 28/2 = 14 (0) 26/2 = 13 (0) 27/2 = 13 (1)

9/2 = 4 (1) 13/2 = 6 (1) 14/2 = 7 (0) 13/2 = 6 (1) 13/2 = 6 (1)

4/2 = 2 (0) 6/2 = 3 (0) 7/2 = 3 (1) 6/2 = 3 (0) 6/2 = 3 (0)

2/2 = 1 (0) 3/2 = 1 (1) 3/2 = 1 (1) 3/2 = 1 (1) 3/2 = 1 (1)

1 /2 = 0 (1) 1/ 2 = 0 (1) 1/ 2 = 0 (1) 1/ 2 = 0 (1) 1/ 2 = 0 (1)

## Problem 3. Implement the algorithm for each number

K i r i l

01001011 01101001 01110010 01101001 01101100