

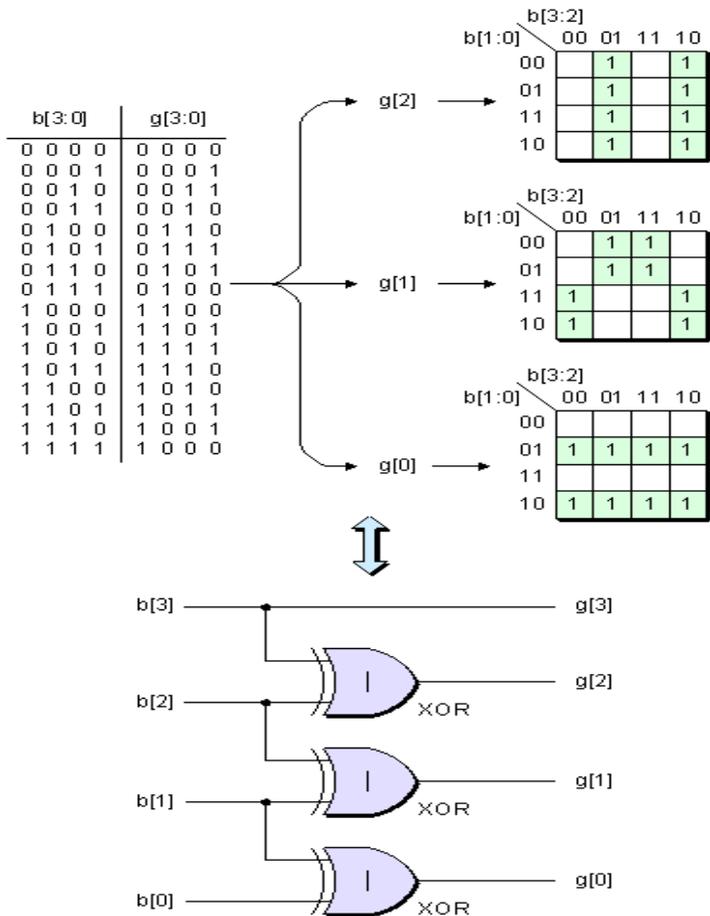
## EXPERIMENT NO. - 14

### Aim of the Experiment:

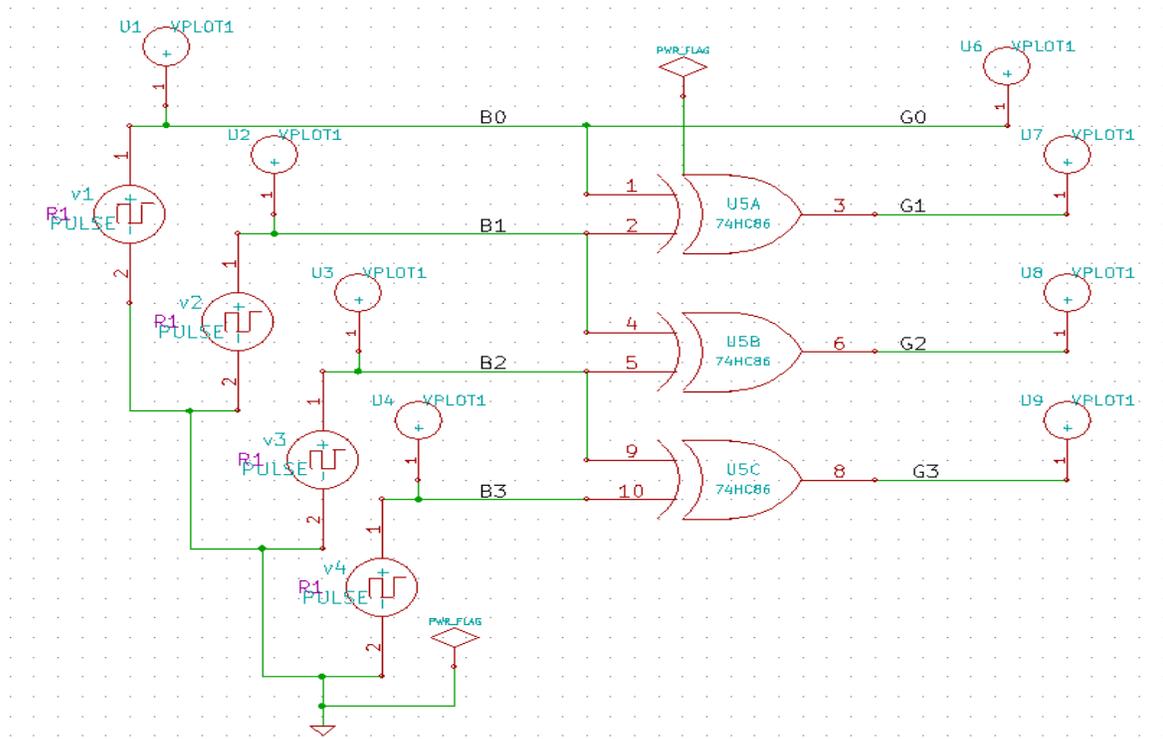
Design, assemble and testing of Binary to gray converter

### Theory:

In binary coding the text or the data is represented in a stream of bits of 1's and 0's .GRAY CODES are non weighted codes , that is they cannot be provided a weight to calculate their equivalent in decimal . Gray codes are often called reflected binary code, the reason is clear if you compare the column of gray code with the binary code.

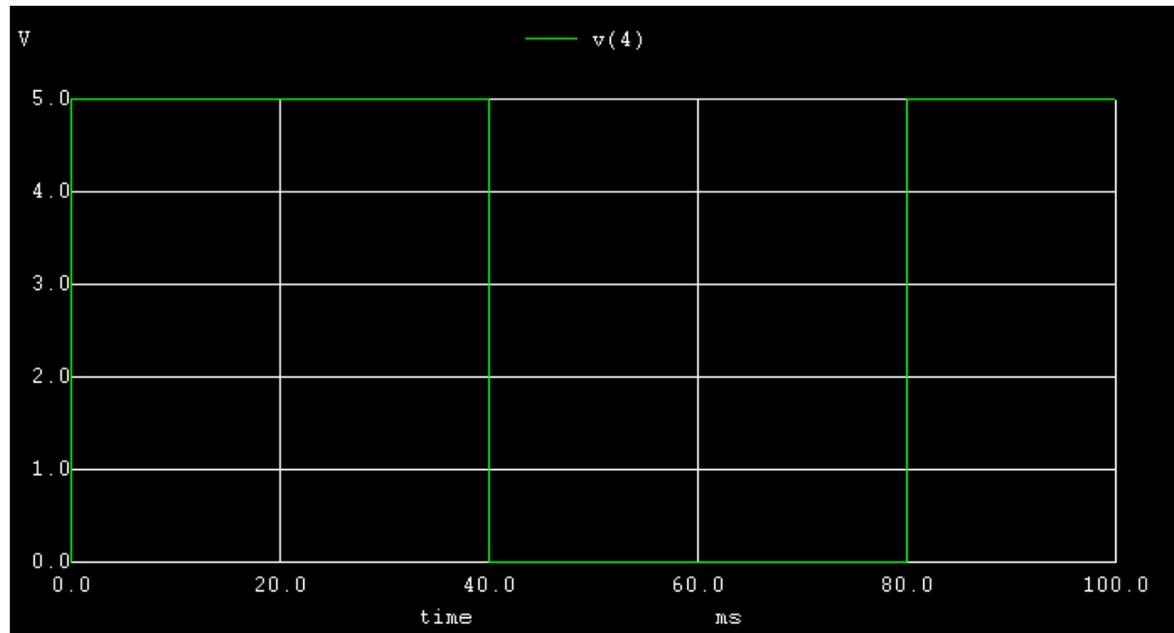


**Schematic Circuit:**

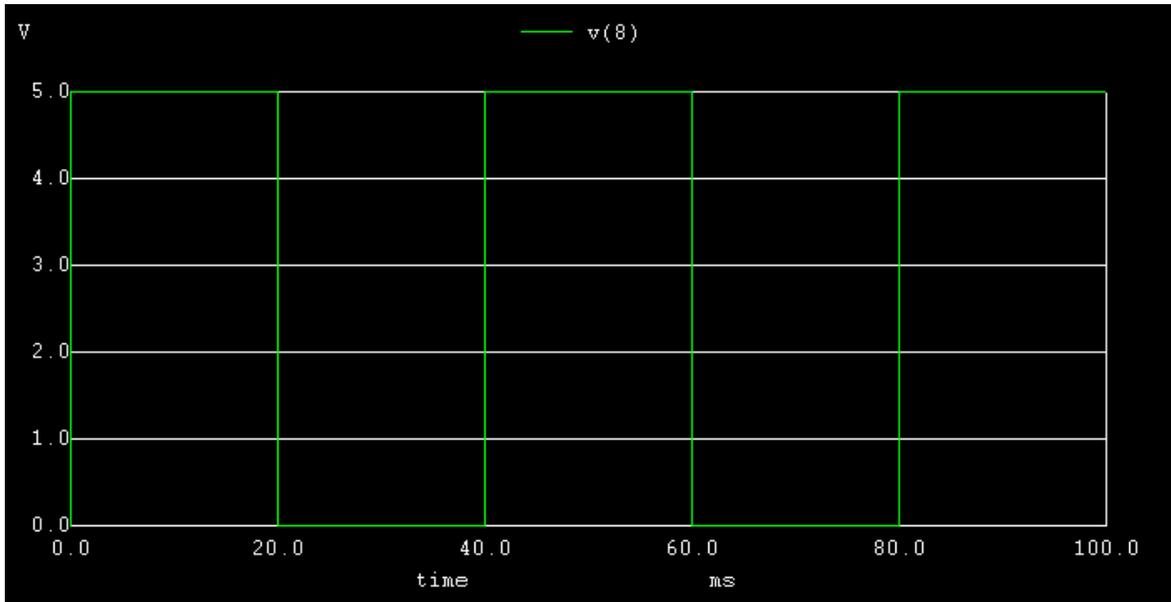


**Input Waveform:**

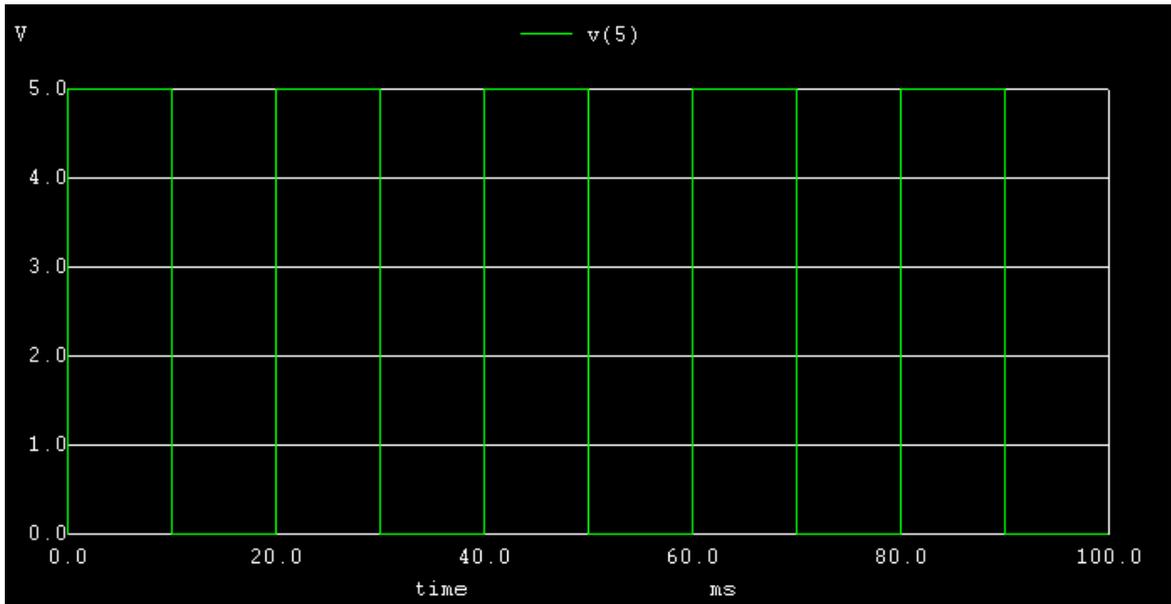
**B0:**



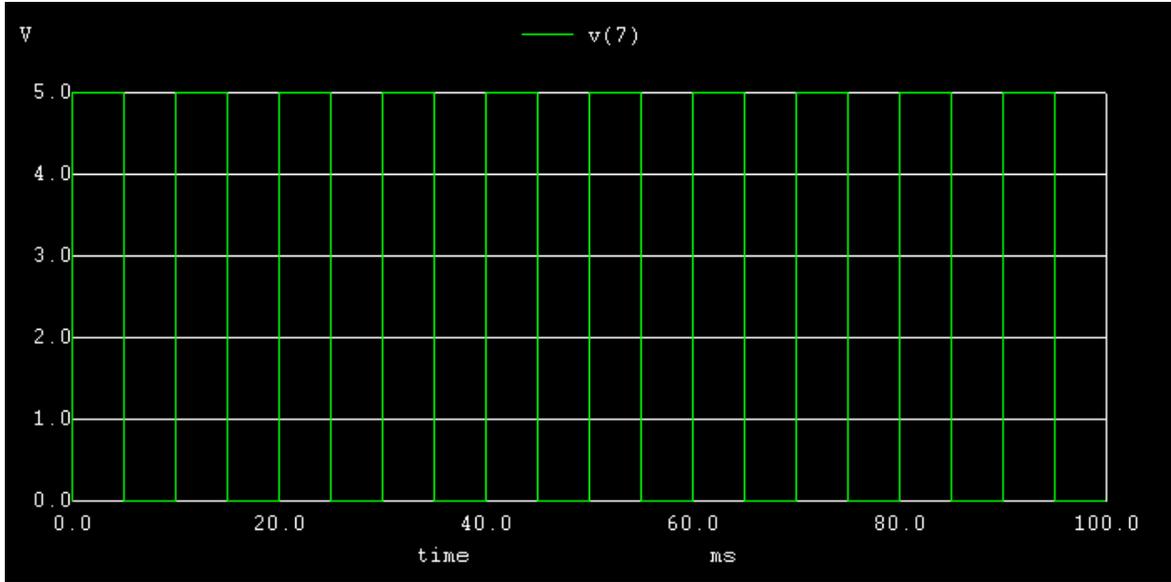
**B1:**



**B2:**

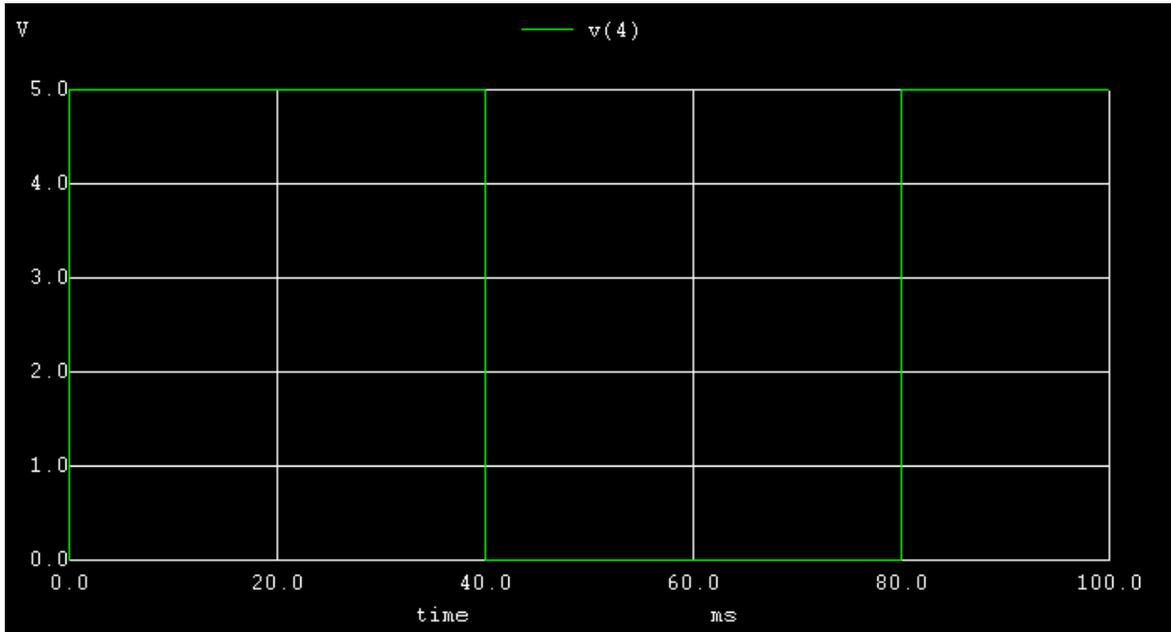


**B3:**

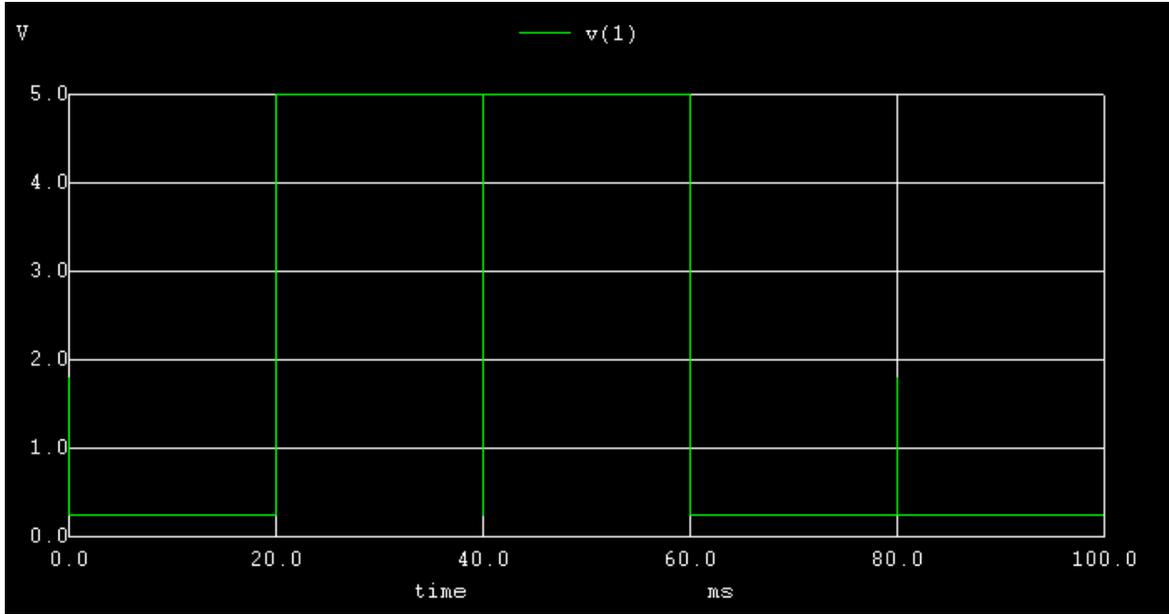


**Output Waveform:**

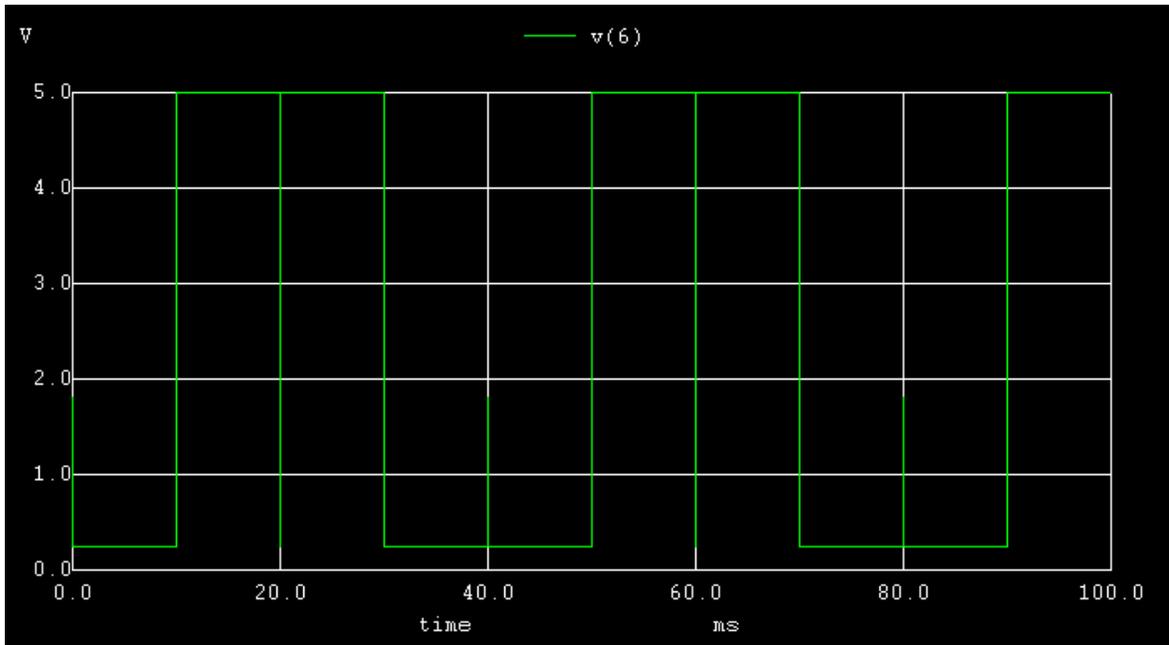
**G0:**



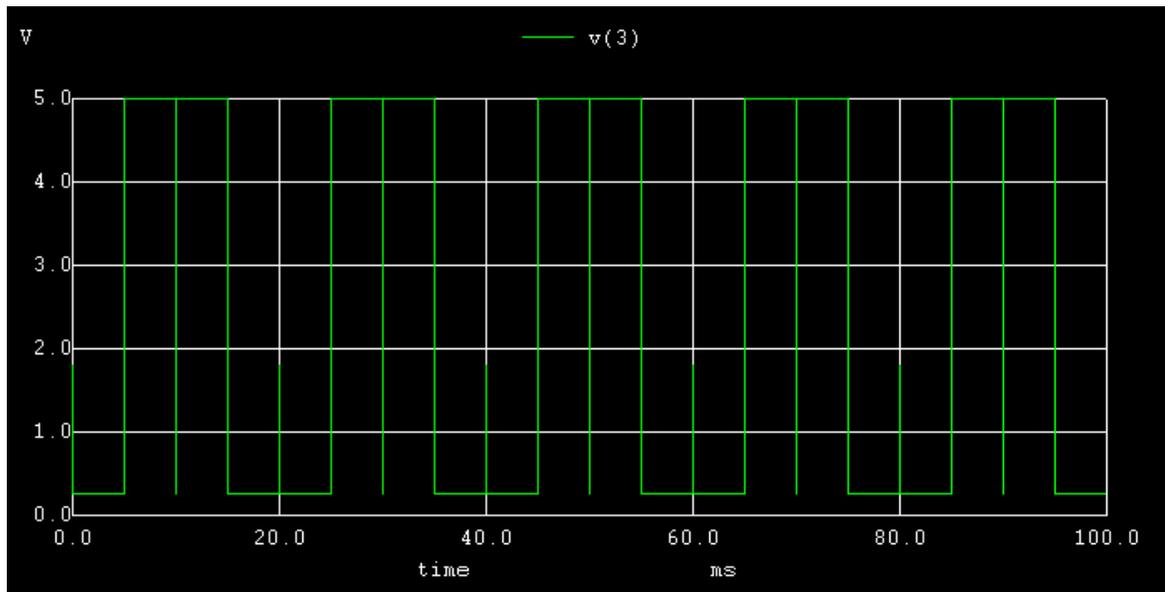
**G1:**



**G2:**



**G3:**



**Conclusion:**

**Date:**

**Signature of the Student**

**NAME:**

**ROLL NO.:**

**GROUP ID:**

**SUB GROUP NO.:**

**Experiment Mark: / 20**

**Instructor's Signature**