

## Assignment -2

1. Simplify the given Boolean expressions and draw the logic circuit of the simplified output:
  - i.  $A+AB+C$
  - ii.  $C''+AC+BC$
  - iii.  $A+AC+BC$
2. Convert the following:
  - i.  $(110011)_G = (?)_2$
  - ii.  $(101010)_B = (?)_G$
  - iii.  $(347)_{BCD} = (?)_{\text{Excess-3}}$
3. Why AND and OR gates called basic gates? Give reasons.
4. Where do you find the applications of Binary codes and Decimal codes?
5. How do you differentiate Binary codes and BCD codes?
6. Draw a truth table and logic diagram of the AND gate with three inputs.

Submission Deadline: Jan 18,2023