Implementing Combinational Logic

•   The different steps involved in the design of a combinational logic circuit are as follows:

1. Statement of the problem.

2. Identification of input and output variables.

3. Expressing the relationship between the input and output variables.

4. Construction of a truth table to meet input–output requirements.

5. Writing Boolean expressions for various output variables in terms of input variables.

6. Minimization of Boolean expressions.

7. Implementation of minimized Boolean expressions.