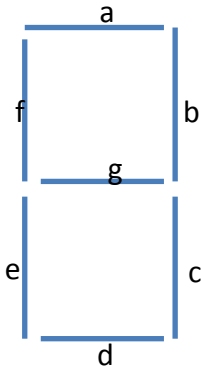


Consider a BCD (binary code decimal) to 7-segment display. There are 4-binary inputs representing the decimal digits 0,1,2..9 and there are 7 output functions, each representing a segment of the LED display.



- (i) Draw the Truth Table(TT) representing the inputs and the 7 output segments (functions).
- (ii) Write the sum of minterms for each of the function.
- (iii) What is the “don’t care” function for each output?
- (iv) Simplify the function for each segment (use don’t cares ) and implement it using only NAND gates.