Assignment 2
Submission Link Sectio 01: Here
Submission Link Sectio 02: Here

1. **Simplify** the following boolean expression: (A + B) (A+B)(A+C)
2. **Find** the complement of the following expression:
   (x' + y + z')(x' + y')(x + z')
3. **Draw** the following functions using NAND gates only:
   F(A,B,C,D) = (A'B'CD' + A'D + (B+D'))
   NB: You can't simplify the above function. You have to draw
      based on the function given in question.
4. **Draw** the following functions using NOR gates only:
   F(A,B,C,D) = (AB'C'D' + AD + (B+D'))
   NB: You can't simplify the above function. You have to draw
      based on the function given in question.
   Find out SOP and POS for the following: (Do not use truth table)
   5. F(A,B,C) = AB+BC'
   6. F(A,B,C,D) = A+ B'CD'
   7. F(A,B,C,D,E) = AB+CDE
8. **Simplify** the following boolean equation using the laws of boolean algebra and
   implement the simplified function using only NOR gates:
   F(a,b,c,d) = $\sum$(8, 9, 10, 11, 13, 15)
   Simplify the following boolean equation using the laws of boolean algebra and
   implement the simplified function using only NAND gates:
   9. F(a,b,c,d) = $\sum$(8, 9, 0, 11, 7, 15)
   10. F (a,b,c,d) = $\sum$(5, 8, 9, 12, 15)