ET0901 Sample EST solution

B1(a) $D = A'B + AB = B(A' + A) = B$

        $E = D'C' = B'C'$

B1(b) **module** B1b (A,B,C,F);

      input A,B,C;
      output F;
      wire D,E;
      xor Xorl (D, A, B);
      nand Nand1 (E, B, C);
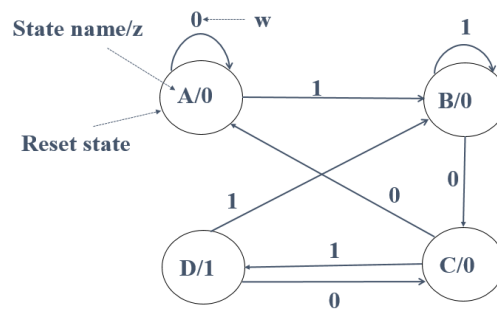   **nor** Nor1 (F,D,E);
  endmodule

B2(a)

B2(b)   2

B2(c)   101