

DLD

Lab 10 (In lab)

Task # 1:

As the input 2 and 9 are high.

a)

$$A_0 = 1 + 3 + 5 + 7 + 9 \\ = 0 + 0 + 0 + 0 + 1 = 1$$

$$A_1 = 2 + 3 + 6 + 7 \\ = 1 + 0 + 0 + 0 = 1$$

$$A_2 = 4 + 5 + 6 + 7 \\ A_2 = 0 + 0 + 0 + 0 = 0.$$

$$A_3 = 8 + 9 \\ A_3 = 0 + 1 = 1$$

$$A_3 A_2 A_1 A_0 = 1011.$$

b) No, 1011 is not a valid BCD code.

c) It does not give correct output on values greater than 4 as the maximum binary in BCD is 1001.