Mock Quiz Coal

Time: 30:00 minutes

Question 3: Coding Questions

a) Write a subroutine that takes a number as an input and count a '10' pair of bits present in that number.
   E.g.: Num: 0XABCD
   In binary: 1010101111001101
   Output will be 5 because there are 5 '10' pairs are in the binary of ABCD.

b) Write a subroutine that takes a number as an input and invert or complement every odd number bit in that number. Means the bits located on 1st, 3rd, 5th and up to 15th location should be complemented or inverted.
   E.g.: Num: 0XABCD
   In binary: 1010101111001101
   Output: 0000000101100111
   Num in hexadecimal will be: 0x0167