CRC Assignment Data Communication

1. Calculate CRC for 1 Character of your First Name where P = 101, FCS = 2bit.
2. Calculate CRC for 2 Character of your First Name where P= 110101 FCS = 5 bit.

Answer the Question

1. D = 8 bit= '**M'** = 0100 1101 *(8 bit)*
D = 100 1101 ***(7 bit)***
2^2 D = 100 110100

```
101 |   100 110 100                    |101 101 0
        101
        ----------------
        00111 0 100
           101
        ---------------
           0100 100
            101
        ----------------
             00110 0
                101
              ----------
                0110
                 101
                 ------
                 011
```

2^2 D = 100 110100
FCS = 11

CRC 100 110111

2. D = 16 bit = '**MU**' = 0100110101010101

D = 100110101010101 ***(15 bit)***

2^5 D = 100110101010101 00000

```
110101 | 10011010101010100000                  | 111 111 001 001 001
         110101
       --------------
        0100111
         110101
       --------------
          0100100
           110101
           ----------
           0100011
            110101
            ----------
            0101100
             110101
             ----------
             0110011
              110101
              ----------
              000110011
                  110101
                  ----------
                  000110010
                      110101
                      ----------
                      000111000
                          110101
                          ---------
                          0011010
```

2^5 D =100110101010101 00000

FCS = 11010

CRC = 100110101010101 11010