```
17/8/23
         Lab-9[i]
a) white a Phogoam for Lerror detecting ap
-> Coole
# include < Stalio. h>
H include < String. h)
the define N Stolen (Poly)
 Char data[30];
Char Check-Value [36];
                         19:2000
Char Poly [10];
int data-length, E, j;
Void xor.
 600 (jz1;j<w;j++)
 Check Value [j] 2 (Check-Value [j] = 2 Poly [j])
            (0)
 void decieus ()
 Paint ("Enter the recieved data:"):
 8 cauf (" 1.5", data);
 Print ( " Data decieved : 1. S", data);
 (b c();
Por (i=0; (i< w-1) 44 (Check-Value [i]='1")
  if (N-1)
   Print (" Exxod delatal")
     alse.
```

```
Pail ("No exx of detected"),
     Void (rc()
                                                                                        The state of the s
         los (i=0; i<∞; i++).
                 Check value [i] = data[i];
    So S
        if (check value [0] = = '(1)
                         X6R (),
    βον (j. 00, j <ω-1, j++).
              Check - Valeo [ ; ] = Check Value [j+1];
         Check_value [j] = data [j++];
       3 while (ix= data. length tN+1);
    { Point f (" Enter deta to be to sansmitted !!).
       "Scanf ("/-S", 4 duta);
        Point { ( Enter the divisor polyonomial: ");
       8 can b ( " 1.5", & Poly);
      dute - leigth = Stolen (duta);
     for (i = data - length; ix datalength + N -1; it).
                duta [i]:6;
Point (" Data pudded with N-1 zeros: (S), latel
                C&C ();
```

Point ("CRC Value is 13) for (i= data length; ix duty. length tw-1; is, dala [i] - Check value [: - Stata · length); Print ("Final data word to be Sent: "1.5" date decived (); retarn o; output: Exten data to be transmitted; 101010. Cuth the divisor Polynomial; 1011. Data Pudded with Zeros: lololooo. CRC value isi. 661. Final code word to be sent : 101010001 Enter the fecives data : 1000 1000. Esos detected.

