## CRC code:

```
# include < stdioh>
# include < string. h>
# define N strlen (divisor)
 char data [28];
  chan rem [28];
  char divisor [10];
  int dlength, i, j;
                       - Maring to Barrer
 void XOR() &
   gor (j=1; j<N;j++)
    rem[j]= [(rem[j] = = divisor[j] ? '0': '1');
    3
 roid receiver () {
   prints l'Enter the received data");
   scory (".1.5", data);
   print & ("Inlo");
   prints ( bata received: 1.5", data);
    crc c);
   la (i=0; (i < N-1) & & (Lew [i] ;=,1,1; i++);
     ik (izN-1)
         printy ("in Error detected inin");
      else
         prints ("in No error detected inin");
```

```
void crc () }
  for (1=0; iKN; i++)
     rem[i]: datali];
  do {
    ix (rem[o] == "1")
       XOR ();
     gor (j=0; j<N-1; j++)
        remlj J= remlj+J
     rem[]] = data [i++];
 while (ix= dlength + 16);
  ٥
              17. - W. - [1] - 1 - [1]
int main ()
 5
   int c=0;
   printy ("In Enter data to be transmitted:");
    scang (" 1.5", data);
     print (" In Enten the Divisor: ");
     scong ("1.5", divisor);
     dlingth = strlin (dota);
     for (i= dlingth; i < dlingth +16; i++)
           data (i] = 'O';
       Bring C. Iu. );
     with the stable of the stable of the following
```

```
printy ("In Data padded with n-1 zeros: . 1d",
  data);
 prints ("In");
  CTC C);
 printy ("In cre or check volue is: 1.5", rem);
  printy ("In rem strun is: 1.d", strun (rem));
       printf ("In 1.5", data);
        data[i] = rem (c++);
      b
      foring & C., (U.);
     printy ("In final data to be sent: 1.5",
       dafa);
    brink ("InIn");
    receiven ();
     return or
```

-<u>`</u>ó.-

main.c

Output

/tmp/vgkx6zRWxE.o

Enter data to be transmitted: 110101

Enter the Divisor: 1011

CRC or Check value is : 110

rem strlen is: 3

Final data to be sent : 1101010000000000000110

Enter the received data: 110101

Data received: 110101

No error detected