## CYCLE-2.

Write a prog. to detect error usin ERC-CCITI(16 km, #include < st dio. h) #include (conjo. h) char m [50] , 3(50), A[50], g[50], temp[50]; void creo (int n) { ixt inj; foi (i=0; i (n; i++) temp(i) = m[i]; for (i=0; i < n-16; i++) ? if (MO] == (1') { 9 (i) = 1,2; ¿[i]- (o'; shift (); n[16] = m[17+i]; n[17] = 10'; for(j=0; j <= 17; j++) temp (j) = r(j); 2[n-16] = '10'; void codram () f int injo for (i=1; i <=10; i++) 1[i-1] = ((int) temp[i]-48) 1 ((int) g (i]-48) +48;

```
void shift (){
   inti;
    for(i=1; j <= 16; j++)
        n[i-1] = n[i];
void cottray (int n) 1
     inti, k = 0;
     fa (i= n-16, i < n; j++) {
         m(i) = ((int) m(i)-48) ~ ((int) m(h+1)-48)+4;
     - - m[i] = (10';
void main ()
  int n, 1=0;
   char ch other; int flag = 0;
  printly ("Enter the frame bits: ");
while ((ch == gate (stdin))!= (in') ?
        m (i++) = ch;
  n = i;
for (i = 0, i < 16, i + +)
        m[n++)='0';
        m[n] = (10';
   Prentf (" Mag after appendir 16 zeroe: %5", m);
  for (1 = 0; i < 16; i++)
        g[i] = '0';
g[o] = g[4] = g[11] = g[16] = '1'; z[17] = '10';
 print ("Ingenerator: %5 )n", 9);
```



crc (n); printf ("In quotient: %5", 9); caltrans (n); printf ("In transmitted frame: %5", m);
printf ("In En ter transmitted frame: ");
Scanf (") n %5", & m); Printy ("CRC checking"); printf (") " last Romaindes: % 5", 5); for (i=0; ; <16; ; ++) {

1 if (h(i)) != (0') print ("Evror dury transmissig!"); ehre brint (Received frame is correct!"); OUTPUT: Enter frame bits. 1011 Msg afer appendig 16 zeroes: 1011 00000000 0000 0000 Cremerator: 1000 1000 000 100001 Quotient: 1011 Transmitted frame: 10111011 0001 0110 1011 Enter transmitted frame: 1011 1011 000, 0110 0111 last remained: 0000 0000 0000 0000 Received frame is correct.

Enter the frame bits:1011

Message after appending 16 zeros:10110000000000000000

generator:10001000000100001

quotient:1011

transmitted frame: 10111011000101101011

Enter transmitted freme: 10111011000101101011

CRC checking

last remainder:00000000000000000

Received freme is correct