Q. Verite a program for error detecting code 18141705028 Using CRC-CCITT (16-leits). # include < etdio .h > Char m [50], g [50], & [50], g [50], temp [50]; void caltrans (int); recid ere (int); reaid shift 1(); int main () int n, i=0; Char ch, flag =0; printf ("Enter the frame leits:"); sorile ((ch = gets (stdin))!= (\n') m[i++]=ch; n= i; for (i=0; i<16; i++) m [n] = (10); printf ("Message after appending 16 zeros: % s", m); for (i=0; i <= 16; i++) g[0]=g[1]=g[1]=g[6]=91,g[7]=101; g[i]='0); printf ("\n generator: 9.5\n",9); orc(n); printf ("(n)n quotient: 905/n", g); caltrans(n); printf (" n transmitted frame: 905", m); printf (& Enter transmitted frame: "); Sear ("n" 5", m); CRC (n);

printf [" n In last hemainder'. 905 1,9); for (i=0 2×16 ; 2++) if (n[i] 1='0') flag=1; continue; if (Blag == 1) Prints ("Essor during transmission"); Printf ("(n)n Received frame is larrett"); recoid ese (int n) Eint i, j; for(i= 0; i(n; i++) for (i=0; 2<16; i++) printf ("\n intermediate remainder\n"); for (i=0; ien-16; i++) Tif (2 [0]== (1') Eg[i]=(11) Da Salar calran (); 3else Q (i)='0'; Shift I (); 9 [16] = m[17+i]; In[17] = (\0';

printf ("In remainder "10 d: "/05", i+1, 2); for(j=0;j<=17;j++) tomp[]- 2[j]; 3 2[n-6]=(10') recidealram () Einti, j; box(i=1,i<=16;i++) 2=[i-1]=((int)temp[i]-48)"((int)g[i]-48)+48; raid shift 1() Eint i; for(1=1; i(=16; 1+t) 2[2-1] = 2[i]; Froid raltrans (int n) Eint i/R=0, for (i= n-16; i < n; i++) m [i]= ((int) m[i] -48) ((int) 2[x++]-48)+18; m [i]=101;