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Experiment 7
Aim : write a program for error detecting
code using CRC-CCITT (16 bits)
#include < iostream>
#include <string.h>
int are (char *ip, char *op, char *poly,
        int mode)
  stropy (op, ip);
  4 (mode) f
     for (int i=1; i < strlen (poly); i++)
     streat (op, "0");
   for lint i=0; i < strlen(ip); i++) {
     if (op [i] == '1') {
       for (int j=0; j ( strlen (poly); j++){
          if (op[i+j] == poly[j])
           op[i+j]='0'.
          opli+j]='1';
   for (int iso; i ( stelen (op); i++)
      if (op(i) == '1')
       return 0.
   Return 1;
```

int main () those ip [50], op [50], secv [50]. cher poly [] = "10001000000100001" cout << "Enter input in binary" < [ eng cin >> ip; cic (ip, op, poly, 1); cout << "Transmitted message is" (< if << op + stalen (ip) << ende. cout << "Enter received message in binary << endl. un >> recv; if (cre(recv, op, poly, 0)) cout << "No error" << endl; else cout << "Error in data transmission < endl. return 0. Output: 1) Enter input message in binary 1011010101 Transmitted message: 10/10/010/11/11/10--110111010 Enter received message 101101010111111110110111010 No error in data

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(2)	Entel input message in binary	
	1011010101	
	Transmitted message -	
	1011010101111111011011010	
	Enter received message	
	1111111110000000111111111	1
	ELIOL In data transmission	has
/	occured.	
V		
N	No. of the second secon	
0/12		
201		