Date: 29/12/22

lab-7

@ Write a Program fox error detecting code using CRC-CCIT # include k stdio. hz #Include <string.h> # define N stolen (9) Char t[28], cs[78], 9[10]; int a, e, c: Void = xox function() { worth & yourse fox (c=1; c=N; c+t) (+ ofti 005[c] = 8((c5[c] == 9[c]) 9/0': 11); 01 Void CXCC) { fox (C=0; e<N; e++) c5[e] = t[e]; if (cs[0] == 111) xoxfonction(); fox ( C=0; C < N-1; C++) cs[c] = cs[c+i]); cs[c] = t[e++]; while (e == a+ N-1); int main () print f ( et Enter data: "); Scan f (ce o/ 5 19 +): print of (ce Enter generateing polynomial: ??); scan f ( " 4.5", 9); print + (et ---- 90); print (er Grenerating polynomial: %599,9); ACHIEVER



```
a = 5+0 len (+);
 Jos (e=a; e<a+N-1; e++)
 t[e] = '0':
Print f (et ---- ?7):
point f ("Padded data is: 7.5", t);
print f ( ee - . - - ");
crc():
print f (ee CRC is: 1/0527009): 1 11 1111
 fox (e=a; nexa+N+) syeth) milianes with
   t[e] = cs[e-a]; 101 : 1 simply painting
print f (er Final data to be gent 2 % 3,79+);
print fo (ce=+2-27/3); De of to 1 (A)
print + (" Test error detection o(yes) 1(no)? ? ");
scanf ( 190/3 879, 80) and with your
if (e == 0)
1 at at similar and westing out of the
     Point ( Senter the position where error is to
             be insented"); hetero
    scant (et % d, , & e);
   while (e==011 e>a+N-1);
  t[e-1]=(+[e-1]=='0')9'1'; '0';
  pointf (er Exxoneous data: %5 \n97, t);
(8(())
tox (e=0; (e< N-1) xx (cs[e] != '1'); eT+);
  it (e < N-1)
     Printf ( * Fxxor detected);
```

printf (e. No error detected "); retorn 0; Output: Enter data = 1011010101 Exter generating polynomial: 1010 Generateing polynomial: 1010 Padded data is: 1011010101000 Chalis (Remainder): 000 matter land Final data to be sent : 1011010101000 ice sit with the notice that the Test error detection o(yes) 1(no)? 0 Enten the position where error is to be inserted: Ennoneous data: Illorororo or Ernor detected it when you

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