Foron Correction at Data link layor

Aim:

and correction. using Harring code concept make a text run to input date stream and verify evia conceptant fature.

Doos Coverton Pat Link Layon:

Harming code is a set of overs Correction code. that can be used to detect and carrowed the evicon. That can occurs when the date is transmitted from the sender to the receiver.

Greate roder program with below features:

* Input to sendor file should be a
tout of any length program should convert the
tout to binary.

binary dates and add reducted bits to it.

Save this output in file called chand.

Create a receiver program with bolow feature.

For Receiver:

* Receiver program should now the input from the chand file.

* Apply harving code on the binary

date to check for coroses.

```
date to ded for ovors.
    *If there is an error, diply
the position of the Guar.
Sendor and buy and we took
  Storing = "reput ("Enter Storing")
   2 = join (formal (aili). and for i'is it
see the go so do pourcil
for i in range (low(s)):
if (27, i) >= len(s) titl):
edice en sibadianis
   malen (s) +96
C2 28 for
  for i in range (2015)
for i in range (n):
     if (9+1) in posi
       b-insert Ciripio
che:
b. insert (i int (2007))
print ( parity bit pourtion: p)
    print (" intial on coded dato : with p' at
```

* Apply harning code on the binary

```
ini so
       i = P-1
      while icm:
       count += ( [: 1+p], count (1)
        id = 27p
       ISP-1J = 1 court 1/2!= 0 else o
     paind (" Find encoded dak with parity bidn: 16:-1
     f = open ("cade test , u")
      fropon (" original: tate; "")
      f = cante (str (DI::-ID)
   · Roceioue pg:
       d=gpal code. Hot " or ")
       t sf. readline ()
       port ( "Ecodo: ", ")
       e = oper trongal red. tet; " ")
       y, e. road line ()
       Print ( codo : 4)
       1= Kitip ("['J. stip/"]").stip(")
            stip (",")
     for in1;
  i. strip [" )
       1- []
        Ps [ ]
        20 2 0 or
doni in rage (BACI):
    12 (2+7; > 5 En W) +1+1);
```

```
for: in range (ab):
   p. apport ( , " "; )
pount (" pontion: " p)
800; is (2: 1-1)
     if(: == 1 on [s=11"):
       9 append (1)
     Oso:
9. append (0)
  for pin pos
     com = 0 1 - 100 1 m
   1 5 P-1
  while it lented ):
    count + = 9 I: 1 pJ. coul (i)
      it = 2 *p
   ( append ( o) if court 1.2 = =0 else
  (appende )
  print ( BINARY " ([:1-1])
Change -0
   2>2[::-J
   for innago (lace [::-000);
     (Range += CI, J+ 2==;
     9 Echange - iJ 00 if 9 Echang-iJ
    print (" Boron: ", change
    put l'acord codo: 21
```