```
Name: Saakshi Navale
                                 CycliD- Labo
CRC (Cyclic Redundancy Check)
dender si de & Revienersi de
def xor (a, b):
      result : [].
      tor i in range (1, len (b)):
              if cacij == b(ij):
                    result append ('0')
              alse
                  ones alt append ('1')
      sieture ", join (result)
      niod2 div (dinident, dinisor):
de
        pice: den (dimisor)
        trup - divident [0: pich]
        white pick < len Colinidat):
                if tmp[0] = = '!':.
                     Imp = xor (dinisor, tmp) + dinident (pick)
                     tmp=x08 (dissor, Imp) + divident (pich)
                else:
               pick += 1.
        it tmp:[0] == 111;
                 tmp=xor (divisor, tmp)
                 trup - xor (o' pick, trup)
        . checkword: tmp
```

return checkword

```
encode data (data, key).
      d-key = den (key)
       appended data = data + 'D' * (l'key -1)
      demounder in mod 2 div (appended data, key)
       coduvord = data + remainder.
       return codewood
       de code Data (data, key):
       d-key = den (key)
       appended-data = data + 0" (Lky-1)
       demain der = modd dir ( appended-data, kay)
       sethen remainde
def CRC
     data = [input (" Enter doita nivant to send!");
en codedais = en code Data (data, key)
      print (any);
    // If it want make change to ans.
       decoded any = decode Data (Dencoded ans, key)
       check tero = D * (cencaey) -1)
       if (ans == tmp):
             print ("The transfer is without extor");
              print (" Packet Not transfuled due
                        to Error Detection");
```