```
EXP-8
Question : Implement (RC-16 in a biograms
                                                1BM1865121
Ans:
Code :
  emport nastito
    de (or (a, b):
          nesult=[]
        for i in range (1. dan (b));
              il a [i] == b[i];
              Heset append (b).
          else greset append (' 1')
 dut mod - to - duri (durided duier),
       Lich = lin (dineson)
        tump = dividend (0', liek]
       which = liek & len (durdend);
          if temp[0] == '('i
  -temp = X or Y (duision trup) + dundered (leck)
      else;
       temp = XOY(0' 4 leip, temp) + durcht (leip'
         licp = 1
      if tmp [0] == 1';
          -tmp = xor (during, tent)
          clse:
```

tun = XOY ('o' \* leck, tmp) Check wood = tmp. ordoin Checkmord. dep encode Deater (data, buy); l-kny = les (Kny) appended - data = deala + 0' & (1- key -1) rumainder = mod - to - dir (appended - data - buy) Codemord = data - demaender. outern Codeword. det decode Data (code; key); sumainder = mod \_to - div (Code, by) ordern demainder. dala = "10001000 000100001" bound (" Gunnating Colymonical :" + Key) Codeanard = encodepata (duata by) Pount ("Check Sum", ", Cook word). Perint ("Terametted Code word) "+ Ster (Code word) Code (" Terametted Gode enoud" 1 t Ster (Codeceard) Code = injut ("Enter dernamthed codemond;"). sucuid Data = ent (decode Data (Code, by)) if Flewid Data == 0; Buit ("NO Socia")