## **PART-B**

## Program 14

Write a program for error detecting code using CRC-CCITT (16-bits).

## Code:

```
cycl-2
  Emperiment - 13:
 coreti a proprior for error distuding
  codecison, (PC-CCITT (16-604)
  cocle:
  det erc-ccéttl data: bytes, polynomom);
       End: Dx 1021, chet: caro: ind= 0xFFF) -10
      cac- init-cac
        for bytico date:
                                               de
            coon= (byte 2 8)
               for- in range (8):
                  G &ac . B 0 x 8000',
                  cac = (cac 171) & borduoused
                      (rc 22 = 1
                  Crc 9: OXPFFE
     refund cre
defencoch = desta_excthene ( desta; bytes) -> byty
    erc: crc-citt(dufa)
      reduced dates of cre-byty.
```

```
det runity-classe-coatl-cord deuter-coath-cociony
  dota, received re-data with car [:- 2],
       date worth encol- 2:)
   com putichere: ene ceita (date)
refund competed on == 10 ft. fraushry
        ( orcead_coc, bytecoch = big')
det neigo,
  message: "Hereo word"
   data: missagi.encode ('utt-8')
   computalion: Err-coite (dute)
  dooterworthere: encode-closter-with-cocldate
  pront ( 1 " Data & missage ?").
proof (f" computal CPC-CESTT: OX {
    computed-cre ! Oux ) ")
  is - unlich = warety - dode worth - crec
          claste-worth-corc)
 of isrealed!
        prond (" ded a Pained Cornelly ")
    pront ( Seita orcived with error")
 of -- nam -- = " -- mais's ."
```

## Output

Enter data: 1100110

Enter generator polynomial: 1101

CRC: 100

Transmitted Data: 1100110100

Enter received data: 1100110100

No Error

=== Code Execution Successful ===