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Reg. No.: 16BCE0081

Slot: L27 + L28

Subject: Networking Lab (CSE1004)

Experiment: 3

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Assessment1_16BCE0081.py - /home/likewise-open/VITUNIVERSITY/16BCE0081/Desktop/Assessment1_16BCE0081.py (3.4.3)
File Edit Format Run Options Window Help

finalData = ''
header = "1001"
trailer = "1101"
s1 = ''
s2 = ''

def Sender(s1,s2):
    num = int(input("Enter the decimal number to be sent: "))
    num1 = num

    #Converting to binary
    s1 += str(bin(num))[2:]
    print(s1)

    #CRC
    s2 += input("Enter the divisor for CRC: ")
    len1 = len(s2)

    chk = 0
    while(chk<len(s1)-len1):
        nextDividend = ''
        if(chk==0):
            dividend = s1[len1:]
            chk=0
            for i in range(len1):
                if((dividend[i]=="1" and s2[i]=="1") or (dividend[i]=="0" and s2[i]=="0")):
                    nextDividend+="0"
                else:
                    nextDividend+="1"
            dividend = ''
            dividend += nextDividend
        else:
            dividend = dividend[1:]
            dividend += s1[chk:len1-1]
            if(dividend[0]=="0"):
                nextDividend += dividend
            else:
                for i in range(len(dividend)):
                    if((dividend[i]=="1" and s2[i]=="1") or (dividend[i]=="0" and s2[i]=="0")):
                        nextDividend+="0"
                    else:
                        nextDividend+="1"
            dividend = ''
            dividend += nextDividend
        print(dividend)
        chk+=1
    CRC = dividend[1:]
    s1 += CRC

    print("The CRC sender side is: "+s1)

dataToSend = header + s1 + trailer
print("Data to send is: "+dataToSend)
```

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Python 3.4.3 Shell
File Edit Shell Debug Options Window Help

Ln: 78 Col: 16
Ln: 201 Col: 4

>>>
001
010
010
010
The CRC sender side is: 101101100010
Data to send is: 10011011011000101101
Traceback (most recent call last):
  File "/home/likewise-open/VITUNIVERSITY/16bce2004/Desktop/Assessment1_16BCE2004.py", line 69, in <module>
    Sender()
  File "/home/likewise-open/VITUNIVERSITY/16bce2004/Desktop/Assessment1_16BCE2004.py", line 62, in Sender
    cosv += s1[11:4]
KeyboardInterrupt
>>> ===== RESTART =====
>>>
Enter the decimal number to be sent: 728
1011011000
Enter the divisor for CRC: 110
011
001
010
011
001
010
010
The CRC sender side is: 101101100010
Data to send is: 10011011011000101101
3e93f36ea044d
>>> ===== RESTART =====
>>>
Enter the decimal number to be sent: 728
Traceback (most recent call last):
  File "/home/likewise-open/VITUNIVERSITY/16bce2004/Desktop/Assessment1_16BCE2004.py", line 79, in <module>
    Sender()
  File "/home/likewise-open/VITUNIVERSITY/16bce2004/Desktop/Assessment1_16BCE2004.py", line 12, in Sender
    s1 += str(bin(num))[2:]
UnboundLocalError: local variable 's1' referenced before assignment
>>> ===== RESTART =====
>>>
Enter the decimal number to be sent: 728
1011011000
Enter the divisor for CRC: 110
011
001
010
011
001
010
010
The CRC sender side is: 101101100010
Data to send is: 10011011011000101101
3e93f36ea44d
>>>
```