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Sec E

Batch E-4

Roll 59

Branch: AIML

Course Computer network Lab

Practical 8 Implement the data link layer framing methods such as character count, character stuffing and bit stuffing

Bit stuffing

Programme

```
9 #include<stdio.h>
10 #include<string.h>
11 int main()
          int a[20],b[30],i,j,k,count,n;
                 f("Enter frame size (Example: 8):");
                 ("%d",&n);
          printf("Enter the frame in the form of 0 and 1 :");
for(i=0; i<n; i++)
    scanf("%d",&a[i]);</pre>
          i=0;
          count=1;
         j=0;
while(i<n)
               if(a[i]==1)
                    b[j]=a[i];
                     for(k=i+1; a[k]==1 && k<n && count<5; k++)
                         j++;
b[j]=a[k];
                         count++;
if(count==5)
                              j++;
b[j]=0;
                         }
i=k;
```

```
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```

Output:

```
Enter the frame in the form of 0 and 1:1010101010

Enter the frame in the form of 0 and 1:1010101010

1

1

1

78\
After Bit Stuffing :10101010111117825664064

... Program finished with exit code 0

Press ENTER to exit console.
```

Flag Byte stuffing:

```
| ^---
| /usr/bin/ld: /tmp/codyTs6l.o: in function `main':
main.c:(.text+0xfd): warning: the `gets' function is dangerous and should not be used.
Enter no.of String: 6
Enter String
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t
You entered:
                                                           Byte stuffing at sender side:
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                                                            ..Program finished with exit code 0 Press ENTER to exit console.
                                                                                                                                                                                                                                                       Language C

    ✓ OnlineGDB beta

        online compiler and debugger for c/c++
                                                                     *****
                                                             9 #include<stdio.h>
10 #include<string.h>
11 int main()
       code. compile. run. debug. share.
                        IDE
                                                                                  char a[30], fs[50] = " ", t[3], sd, ed, x[3], s[3], d[3], y[3]; int i, j, p = 0, q = 0;
                    My Projects
                 Classroom new
                                                                                printf("Enter characters to be stuffed:");
scanf("%s", a);
printf("\nEnter a character that represents starting delimiter:");
scanf(" %c", &sd);
printf("\nEnter a character that represents ending delimiter:");
scanf(" %c", &ed);
x[0] = s[0] = s[1] = sd;
x[1] = s[2] = '\0';
y[0] = d[0] = d[1] = ed;
d[2] = y[1] = '\0';
strcat(fs, x);
for(i = 0; i < strlen(a); i++)
{</pre>
               Learn Programming
                                                                                             f("Enter characters to be stuffed:");
             Programming Questions
                                                                                        t[0] = a[i];
t[1] = '\0';
if(t[0] == sd)
                                                                                         strcat(fs, s);
else if(t[0] == ed)
    strcat(fs, d);
                                                                                                         at(fs, t);
                                                                                            t(fs, y);
f("\n After stuffing:%s", fs);
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```

Character count