Experiment No: 3

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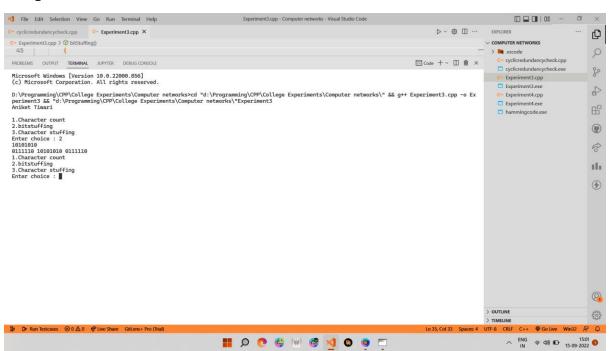
Roll No: 21143285

Program:

```
#include<bits/stdc++.h>
using namespace std;
void characterCount()
  int n, a[100], j = 0, k, end_f, start_f = 0;
  string str;
  cout << "Enter the string data:";</pre>
  cin >> str;
  n = str.length();
  for (int i = 0; i < n; i++)
     a[i] = int(str[i]) - 48;
  int i = 0, f_{count} = 0;
  end_f = a[0];
  while (i < n)
     f count++;
     cout << "The " << f_count << " frame contain " << a[j] << " char:" << endl;
     for (j = start_f; j < end_f; j++)
       cout << a[j] << " ";
     cout << endl;
     start_f = j;
     end_f = end_f + a[start_f];
     i = start_f;
void bitStuffing()
  string s;
  cin >> s;
  string stuffed = "0111110";
        int count = 0;
        for(int i = 0; i < s.size(); i++)
                 stuffed += s[i];
                 if(s[i] == '1')
                          count++;
```

```
else
                         count = 0;
                 if(count == 5)
                         stuffed += '0';
                         count = 0;
                 }
        stuffed += " 0111110";
        cout<<stuffed<<endl;
int main()
  int ch = 0;
  cout << "Aniket Tiwari\n" << endl;</pre>
  do
     cout << "1.Character count \n2.bitstuffing \n3.Character stuffing\nEnter choice : ";
     cin >> ch;
     switch (ch)
     case 1:
       characterCount();
        break;
     case 2:
        bitStuffing();
        break;
     case 3:
       char a[30], b[4] = "dle";
       int count = 0, n, p, i;
       cin.ignore();
        cout << "Enter the frame to be sent : ";</pre>
        cin.getline(a, 30);
        n = strlen(a);
        cout << "Length of frame is : " << n << endl;
        cout << "dlestx";</pre>
        for (int i = 0; i < n; i++)
          count = 0;
          for (int j = 0; j < 3; j++)
             if (a[i] == b[j])
               count++;
               i++;
```

Output:



Character count

