

Bit Stuffing

```
#include<stdio.h>

#include<string.h>

int main()
{
    int a[20],b[30],i,j,k,count,n;

    printf("Enter frame size (Example: 8):");

    scanf("%d",&n);

    printf("Enter the frame in the form of 0 and 1 :");

    for(i=0; i<n; i++)
        scanf("%d",&a[i]);

    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;

}

}

else

{

    b[j]=a[i];

}

i++;

j++;

}

printf("After Bit Stuffing :");

for(i=0; i<j; i++)

    printf("%d",b[i]);

return 0;

}

```

The screenshot shows a web browser window with the URL `programiz.com/c-programming/online-compiler/`. The browser has several tabs open, including 'CSA0708-CNRTA - Google Sheet', 'Mural320/CSA0708-COMPUTER', and 'Online C Compiler'. The compiler interface includes a 'Run' button and a 'Clear' button. The code editor on the left contains the following C code:

```

1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     int a[20],b[30],i,j,k,count,n;
6     printf("Enter frame size (Example: 8):");
7     scanf("%d",&n);
8     printf("Enter the frame in the form of 0 and 1 :");
9     for(i=0; i<n; i++)
10         scanf("%d",&a[i]);
11     i=0;
12     count=1;
13     j=0;
14     while(i<n)
15     {
16         if(a[i]==1)
17         {
18             b[j]=a[i];
19             for(k=i+1; a[k]==1 && k<n && count<5; k++)
20             {
21                 j++;
22                 b[j]=a[k];
23                 count++;
24                 if(count==5)
25                 {
26                     j++;
27                     b[j]=0;

```

The output window on the right shows the following text:

```

/tmp/nBsrBw0i66.o
Enter frame size (Example: 8):8
Enter the frame in the form of 0 and 1 :0
1
1
1
1
0
1
After Bit Stuffing :011111001

```

The bottom of the screenshot shows a Windows taskbar with the date and time '12-01-2023 11:14' and the system status '82°F Haze'.