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CODE: CSA0734

EXPERIMENT: 40

AIM: TO impement Bit Stuffing using C program.

PROGRAM:

```
#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;
}

```

OUTPUT:

Enter frame size (Example: 8):12

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

After Bit Stuffing :0101111101001

RESULT: Therefore, implementation and generation of BIT STUFFING has been successfully executed using C program.