PRACTICAL NO-5

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Batch: C1

Roll no: 13

Aim: Write a c program for bit stuffing and character stuffing.

Bit Stuffing:

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main() {
int i, j,count=0,nl;
char str[100];
clrscr();
printf("enter the bit string: ");
gets(str);
for (i=0;i<strlen(str);i++) {</pre>
count=0;
//the following code search the six ones in given string
for (j=i;j<=(i+5);j++) {
if(str[j]=='1') {
count++;
}
//if there is six ones then folling code execute to bit stuffing after five ones
if(count==6) {
nl=strlen(str)+2;
for (;nl>=(i+5);nl--) {
str[nl]=str[nl-1];
}
str[i+5]='0';
i=i+7;
}
puts(str);
getch();
```

Character Stuffing:

```
#include<stdio.h>
int main()
{
  int n,i,x=0;
  printf("Enter the length of input: ");
  scanf("%d",&n);
  printf("\nFlag is: f");
  printf("\nESC character is: e");
  char a[n],b[100];
  printf("\nEnter your string: ");
  scanf("%s",a);
  for(i=0;i<n;i++)
  {
     if(a[i]=='f' || a[i]=='e')
     {
        b[i+x]='e';
        X++;
        n++;
```

```
b[i+x]=a[i];

printf("Your payload is: %s",b);

return 0;

Enter the length of input: 4

Flag is: f
ESC character is: e
Enter your string: file
Your payload is: efilee

...Program finished with exit code 0
Press ENTER to exit console.
```