EXPERIMENT NO 02[B]

PROGRAM:

```
/* Implementation of RAIL FENCE CIPHER TECHNIQUE BY 19141267*/
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
int i,j,k,l;
char a[20],c[20],d[20];
printf("\n\t\t RAIL FENCE TECHNIQUE");
printf("\n\nEnter the input string : ");
gets(a);
l=strlen(a);

/*Ciphering*/
for(i=0,j=0;i<l;i++)
{
    if(i%2==0)
     c[j++]=a[i];
}
for(i=0;i<l;i++)
{
    if(i%2==1)
     c[j++]=a[i];
}
c[j]='\0';
printf("\nCipher text after applying rail fence :");
printf("\n%s",c);

/*Deciphering*/
if(l%2==0)
k=l/2;
else
k=(l/2)+1;
for(i=0,j=0;i<k;i++)
```

```
{
    d[j]=c[i];
    j=j+2;
}
for(i=k,j=1;i<l;i++)
{
    d[j]=c[i]; j=j+2;
}
d[l]='\0';
printf("\nText after decryption : ");
printf("%s",d);
getch();
}
```

OUTPUT: