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Assignment No.: 02 (IS)

PROGRAM CODE :

```
#include <stdio.h>
#include <stdlib.h>

int main(void) {
    int i,j,k,l;
    char a[20],c[20],d[20];
    printf("\n\t\tRAIL FENCE TECHNIQUE");
    printf("\n\nEnter the input string : ");
    gets(a);
    l=strlen(a);
    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("\nCiphertext after applying rail fence:");
    printf("\n%s",c);
    if(i%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);
```

```
}
```

OUTPUT :-

RAIL FENCE TECHNIQUE

Enter the input string : Omkar

Ciphertext after applying rail fence:

Okrma

Text after decryption :Omkar