Information Security Practical Assignment

Submitted to : Ms Upasna

Name : Kanish

Roll Number : CSC/21/53

University Roll No: 21059570017

7. Implement rail fence cipher transposition operation.

Code:

```
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
main()
{
    int i,j,len,rails,count,code[100][1000];
    char str[1000];
    printf("Enter a Secret Message \n");
    gets(str);
    len=strlen(str);
    printf("Enter number of rails \n");
    scanf("%d",&rails);
    for(i=0;i<rails;i++)
    {
        for(j=0;j<len;j++)
        {
            code[i][j]=0;
        }
    }
count=0;
j=0;
while(j<len)
{
if(count%2==0)
{
    for(i=0;i<rails;i++)
    {
        //strcpy(code[i][j],str[j]);
        code[i][j]=(int)str[j];
        j++;
    }

}
else
{

    for(i=rails-2;i>0;i--)
    {
        code[i][j]=(int)str[j];
    j++;
    }
}
```

```
count++;
}

for(i=0;i<rails;i++)
{
    for(j=0;j<len;j++)
    {
        if(code[i][j]!=0)
        printf("%c",code[i][j]);
    }

}
}
```

Output: