**CODE**

//Encryption\_decryption

import java.util.\*;

class EncryptDecrypt

{

static void encrypt(int arr[])

{

for(int i =0; i<4;i++)

{

arr[i]=(arr[i]+7)%10;

}

int temp = arr[0];

arr[0]=arr[2];

arr[2]=temp;

temp = arr[1];

arr[1]=arr[3];

arr[3]=temp;

System.out.println("Encrypted 4 digit integers : ");

for(int i=0;i<4;i++)

{

System.out.println(arr[i]);

}

System.out.println();

}

static void decrypt(int arr[])

{

int temp = arr[0];

arr[0]=arr[2];

arr[2]=temp;

temp=arr[1];

arr[1]=arr[3];

arr[3]=temp;

for(int i =0; i<4; i++)

{

arr[i]=(arr[i]+3)%10;

}

System.out.println("Decrypted orignal integers : ");

for(int i= 0; i<4 ; i++)

{

System.out.println(arr[i]);

}

System.out.println();

}

public static void main(String []Args)

{

Scanner mes= new Scanner(System.in);

int arr[]= new int[4];

System.out.println("Enter a 4 digit integer");

int num = mes.nextInt();

for(int i =3; i>=0; i--)

{

arr[i]=num%10;

num /=10;

}

encrypt(arr);

decrypt(arr);

}

}

**OUTPUT**

