

## Assignment no 2

### Problem statement:

Write a Java/C/C++/Python program to perform encryption and decryption using the method of Transposition technique.

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### Solution:

```
import java.util.*;
public class TrabsitionCipher {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the string: ");

        String msg = sc.nextLine();

        int no_of_Rows=3;
        String msg1 = msg.replaceAll(" ", "");

//        System.out.println(msg.charAt(0));
        System.out.println("The origanal Msg is: "+ msg);
        System.out.println("The origanal msg after removing all the Spaces: "+msg1);
        System.out.print("The Encrypted msg is: ");
        for(int i=0;i<msg1.length();i++)
        {
            if(i%4==0)
            {
                System.out.print(msg1.charAt(i));
            }
        }

        for(int i=1;i<msg1.length();i++)
        {
            if((i+1)%2==0)
            {
                System.out.print(msg1.charAt(i));
            }
        }
        for(int i=2;i<msg1.length();i++)
        {
            if((i+2)%4==0)
            {
                System.out.print(msg1.charAt(i));
            }
        }
    }
}
```

```

    }

}

}

```

**Output:**

The screenshot shows the Eclipse IDE interface. The Package Explorer on the left lists the project structure, including the 'src' folder containing 'TrabsitionCipher.java'. The main editor displays the code for 'TrabsitionCipher.java', which includes an import statement for 'java.util.\*', a public class declaration 'TrabsitionCipher', and a main method that uses a 'Scanner' to read input and prints the original message, the message with spaces removed, and the encrypted message. The Console window at the bottom shows the execution output, indicating that the user entered 'hello' and the program produced the expected results.

```

1 import java.util.*;
2 public class TrabsitionCipher {
3
4     public static void main(String[] args) {
5
6         Scanner sc = new Scanner(System.in);
7         System.out.println("Enter the string: ");
8
9         String msg = sc.nextLine();
10
11         String originalMsg = msg;
12         String msgWithoutSpaces = originalMsg.replaceAll(" ", "");
13         String encryptedMsg = originalMsg.replaceAll(" ", "x");
14
15         System.out.println("The original Msg is: " + originalMsg);
16         System.out.println("The original msg after removing all the Spaces: " + msgWithoutSpaces);
17         System.out.println("The Encrypted msg is: " + encryptedMsg);
18     }
19 }

```

Console Output:

```

Enter the string:
hello
The original Msg is: hello
The original msg after removing all the Spaces: hello
The Encrypted msg is: hoell

```