

```
1 interface Website
2 {
3     String name = "Manoj";
4     String space = "12gb";
5     String domain = "manoj.com";
6     String active = "Yes";
7     int no_of_visit = 4;
8     public void purpose() throws Exception;
9 }
10 class Anywebsite implements Website
11 {
12     public void purpose()
13     {
14         System.out.println("Name : "+name);
15         System.out.println("Space : "+space);
16         System.out.println("Domain : "+domain);
17         System.out.println("Active : "+active);
18         System.out.println("no_of_visit : "+no_of_visit);
19     }
20     public static void main(String arg[])
21     {
22         System.out.println("Author: J.Sri Sai Manoj");
23         System.out.println("SAP ID: 51834596");
24         try{
25             Website web = new Anywebsite();
26             web.purpose();
27         }
28         catch(Exception e){
29             e.printStackTrace();
30         }
31     }
32 }
```

## X Terminal



```
Author: J.Sri Sai Manoj
SAP ID: 51834596
Name : Manoj
Space : 12gb
Domain : manoj.com
Active : Yes
no_of_visit : 4
```

```
Process finished.
```

```

1 import java.lang.*;
2 import java.util.*;
3 class Matrix
4 {
5     static int R = 4;
6     static int C = 4;
7     static void rotatematrix(int m, int n, int mat[])
8     {
9         int row = 0, col = 0;
10        int prev, curr;
11        while (row < m && col < n)
12        {
13            if (row + 1 == m || col + 1 == n)
14                break;
15            prev = mat[row + 1][col];
16            for (int i = col; i < n; i++)
17            {
18                curr = mat[row][i];
19                mat[row][i] = prev;
20                prev = curr;
21            }
22            row++;
23            for (int i = row; i < m; i++)
24            {
25                curr = mat[i][n-1];
26                mat[i][n-1] = prev;
27                prev = curr;
28            }
29            n--;
30            if (row < m)
31            {
32                for (int i = n-1; i >= col; i--)
33                {
34                    curr = mat[m-1][i];
35                    mat[m-1][i] = prev;
36                    prev = curr;
37                }
38            }
39            m--;
40            if (col < n)
41            {
42                for (int i = m-1; i >= row; i--)
43                {
44                    curr = mat[i][col];
45                    mat[i][col] = prev;
46                    prev = curr;
47                }
48            }
49            col++;
50        }
51        System.out.println("Output: ");
52        for (int i = 0; i < R; i++)
53        {
54            for (int j = 0; j < C; j++)
55                System.out.print( mat[i][j] + " ");
56                System.out.print("\n");
57        }
58    }
59    public static void main(String[] args)
60    {
61        System.out.println("Author : J.Sri Sai Manoj");
62        System.out.println("SAP ID : 51834596");
63        int a[][] = { {12, 23, 12, 14},
64                     {1, 78, 6, 6},
65                     {8, 6, 4, 10},
66                     {20, 1, -2, 4} };
67        rotatematrix(R, C, a);
68    }
69 }
```

## X Terminal



Author : J.Sri Sai Manoj

SAP ID : 51834596

Output:

1 12 23 12

8 6 78 14

20 4 6 6

1 -2 4 10

Process finished.

```
1 import java.util.*;
2 public class Even
3 {
4     public static void main (String[] args)
5     {
6         System.out.println("Author : J.Sri Sai Manoj
7         System.out.println("SAP ID : 51834596");
8         int count=0;
9         int rem=0 ;
10        Scanner sc=new Scanner(System.in);
11        System.out.println("enter a number :");
12        int num = sc.nextInt();
13        while(num>0)
14        {
15            rem=num%10;
16            if(rem%2==0)
17            {
18                count++;
19            }
20            num=num/10;
21
22        }
23        System.out.println("no of even digits in given
24
25    }
26 }
```

X Terminal



```
Author : J.Sri Sai Manoj
SAP ID : 51834596
enter a number :
952134687
no of even digits in given number are : 4
```

```
Process finished.
```

```

1 import java.util.Scanner;
2 class Palindrome
3 {
4     public static void main(String args[])
5     {
6         int k=0,flag=0;
7         Scanner sc=new Scanner(System.in);
8         System.out.println("Author : J.Sri Sai Manoj");
9         System.out.println("SAP ID : 51834596");
10        System.out.println("Enter the size of array");
11        int size=sc.nextInt();
12        while(size<1)
13        {
14            System.out.println("Enter a valid size : ");
15            size=sc.nextInt();
16        }
17        int arr[]=new int[size];
18        int arr2[]=new int[size];
19        System.out.println("Enter "+size+" elements");
20        for(int i=0;i<size;i++)
21        {
22            arr[i]=sc.nextInt();
23        }
24        for(int i=0;i<size;i++)
25        {
26            flag=0;
27            int rev=0;
28            int temp=arr[i];
29            while(temp>0)
30            {
31                rev=rev*10+(temp%10);
32                temp=temp/10;
33                flag++;
34            }
35            if(rev==arr[i] && flag!=1)
36            {
37                arr2[k++]=arr[i];
38                for(int j=i;j<size-1;j++)
39                {
40                    arr[j]=arr[j+1];
41                }
42                size--;
43                i--;
44            }
45        }
46        for(int i=0;i<size;i++)
47        {
48            System.out.print(arr[i]+" ");
49        }
50        System.out.print("\nPal : ");
51        for(int i=0;i<k;i++)
52        {
53            System.out.print(arr2[i]+" ");
54        }
55    }
56 }

```

## X Terminal



Author : J.Sri Sai Manoj

SAP ID : 51834596

Enter the size of array :

6

Enter 6 elements :

33

121

232

767

897

4582

897 4582

Pal : 33 121 232 767

Process finished.