

## WAP to check whether the entered number is palindrome or not (using if..else)

//CODE

```
import java.util.*;
```

```
class Palindrome {  
    public static void main(String args[]) {  
        int num, rev=0, temp;  
        Scanner sc = new Scanner(System.in);  
        num = sc.nextInt();  
        temp = num;  
        while (temp != 0) {  
            rev = rev * 10;  
            rev += temp % 10;  
            temp = temp/10;  
        }  
  
        if (rev == num) {  
            System.out.println("Entered number is a palindrome");  
        } else {  
            System.out.println("Entered number is not a palindrome");  
        }  
    }  
}
```

//OUTPUT

```
PS E:\Aamir\SEM 3\OOPM\Class work 1> javac .\Pallindrome.java  
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Pallindrome  
1234  
Entered number is not a pallindrome  
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Pallindrome  
12321  
Entered number is a pallindrome  
PS E:\Aamir\SEM 3\OOPM\Class work 1> 
```

**Input the length of the three sides of a valid triangle in s1,s2,s3. Verify whether the triangle is Equilateral or Isosceles or Scalene. (Using ladder of if..else)**

//CODE

```
import java.util.*;
```

```
class Triangle {  
    public static void main(String args[]) {  
        int s1, s2, s3;  
        Scanner sc = new Scanner(System.in);  
        s1 = sc.nextInt();  
        s2 = sc.nextInt();  
        s3 = sc.nextInt();  
  
        if (s1 == s2 && s2 == s3) {  
            System.out.println("The Triangle is EQUILATERAL");  
        } else if ((s1==s2) || (s2==s3) || (s3==s1)) {  
            System.out.println("The Triangle is ISOSCELES");  
        } else {  
            System.out.println("The Triangle is SCALENE");  
        }  
    }  
}
```

//OUTPUT

```
PS E:\Aamir\SEM 3\OOPM\Class work 1> javac .\Triangle.java  
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Triangle  
10 10 10  
The Triangle is EQUILATERAL  
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Triangle  
9 5 5  
The Triangle is ISOSCELES  
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Triangle  
6 2 4  
The Triangle is SCALENE  
PS E:\Aamir\SEM 3\OOPM\Class work 1>
```

**A student would get a rank of different status depending upon the number of subjects in which the student scored distinction marks.**

//CODE

```
import java.util.*;
```

```
class Grades {  
    public static void main (String args[]) {  
        int num;  
        Scanner sc = new Scanner(System.in);  
        num = sc.nextInt();  
        switch(num) {  
            case 0:  
                System.out.println("GOOD");  
                break;  
            case 1:  
                System.out.println("VIVID");  
                break;  
            case 2:  
                System.out.println("BRIGHT");  
                break;  
            case 3:  
                System.out.println("BRILLIANT");  
                break;  
            case 4:  
                System.out.println("OUTSTANDING");  
                break;  
            case 5:  
                System.out.println("EXCELLENT");  
                break;  
            default:  
                System.out.println("NOT VALID");  
        }  
    }  
}
```

}

//OUTPUT

```
PS E:\Aamir\SEM 3\OOPM\Class work 1> javac .\Grade.java
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Grades
0
GOOD
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Grades
1
VIVID
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Grades
2
BRIGHT
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Grades
3
BRILLIANT
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Grades
4
OUTSTANDING
PS E:\Aamir\SEM 3\OOPM\Class work 1> java Grades
5
EXCELLENT
PS E:\Aamir\SEM 3\OOPM\Class work 1>
```