

Todays Topic

Nested if statement





Nested if

If a if statement is used within if statement then such a control structure is called as nested if.

```
if(condition)
{
    if(condition)
    {
      Statements...
    }
}
```

Nested If statement is used to check a condition only if another condition is true



```
import java.util.Scanner;
class demo
{
public static void main(String args[])
{
```

Scanner stdin=new Scanner(System.in);

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WAP to read a number and check if it is a 2 digit no. or not. If it is a 2 digit no. then check if both digits are same or not.

```
System.out.print("Enter a Number:");
int a=stdin.nextInt();
if(a>=10 && a<=99)
         System.out.println("It is a 2 digit Number");
         int x=a%10;
         int y=a/10;
         if(x==y)
                   System.out.println("Both digits are same");
         else
                    System.out.println("Both digits are Not same");
else
         System.out.println("It is not a 2 digit Number");
```





```
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```

```
import java.util.Scanner;
class demo
public static void main(String args[])
         Scanner stdin=new Scanner(System.in);
         System.out.print("Enter a Number:");
         int a=stdin.nextInt();
         if(a>0)
                   System.out.println("Number is Positive");
                   if(a\%2==0)
                             System.out.println("Even Number");
                   else
                             System.out.println("Odd Number");
         else
                   System.out.println("Number is Not Positive");
```

WAP to read a number and check if it is a positive number or not.

If it is a positive number then check if it is even or not.



```
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```

```
import java.util.Scanner;
class demo
public static void main(String args[])
          Scanner stdin=new Scanner(System.in);
          System.out.print("Enter 3 Angles:");
          int a=stdin.nextInt();
          int b=stdin.nextInt();
          int c=stdin.nextInt();
          if(a+b+c==180)
                    System.out.println("Triangle can be formed");
                    if(a==b \&\& b==c)
                              System.out.println("Eq.Triangle");
                    if(a==b | | b==c | | c==a)
                              System.out.println("Iso.Triangle");
                    if(a==90 | b==90 | c==90)
                              System.out.println("Rt.Ag.Triangle");
          else
```

 WAP to read 3 angles and check if triangle can be formed or not. If triangle can be formed then check if it is an isosceles or equilateral or right angled triangle.

System.out.println("Triangle cannot be formed");



```
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```

```
import java.util.Scanner;
class demo
public static void main(String args[])
           Scanner stdin=new Scanner(System.in);
           System.out.print("Enter Marks for 5 Subjects:");
           int a=stdin.nextInt();
           int b=stdin.nextInt();
           int c=stdin.nextInt();
           int d=stdin.nextInt();
           int e=stdin.nextInt();
           int t=a+b+c+d+e;
           System.out.println("Total is "+t);
           if(a>=40 && b>=40 && c>=40 && d>=40 && e>=40)
                      System.out.println("Student is Passed...");
                      float p=t*100/500f;
                      System.out.println("Percentage is "+p);
                      if(p>=60)
                                  System.out.println("Ist class");
           else
                      System.out.println("Student has Failed...");
```

WAP to read marks for five subject & print total.

Also print percentage if student is passed & also check for 1st class.



WAP to read a number and check if it is a 4 digit no. or not.

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If it is a 4 digit no. then check if sum of its first 2 digits is equals to sum of its last 2 digits .

