/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 \*File Name: Question1  
 \*Purpose: To convert Fahrenheit to Celcius  
 \*Programmer: Sagun Pandey  
 \*Last Updated Date: 02/25/2016  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
  
public class Question1   
{  
  
 public static void main(String[] args)  
 {  
 double fahrenheit = 55;  
 double Celcius = (fahrenheit - 32) \* 5/9;  
   
 System.out.println("The Celcius is : "+Celcius);  
   
 }  
   
}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 \*File Name: Question2  
 \*Purpose: To convert Celcius to Fahrenheit  
 \*Programmer: Sagun Pandey  
 \*Last Updated Date: 02/25/2016  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
public class Question2  
{  
 public static void main(String[] args)  
 {  
   
 double Celcius = 23;  
 double Fahrenheit = (Celcius \* 9/5)+ 32;  
   
 System.out.println("The Fahrenheit is "+Fahrenheit+".");  
   
   
 }  
}   
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/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 \*File Name: Question3  
 \*Purpose: To convert time duration to seconds  
 \*Programmer: Sagun Pandey  
 \*Last Updated Date: 02/25/2016  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
public class Question3   
{  
 public static void main(String[] args)  
 {  
   
 int hours = 2;  
 int minutes = 30;  
 int seconds = 60;  
   
 int totalseconds = hours \* 3600 + minutes \* 60 + seconds;  
   
 System.out.println(+hours+" hours,"+minutes+ " minutes,"+seconds+" Seconds is equivalent to "+totalseconds+" seconds.");   
   
   
 }  
   
}  
----------------------------------------------------------------

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 \*File Name: Question4  
 \*Purpose: To convert Seconds to time duration  
 \*Programmer: Sagun Pandey  
 \*Last Updated Date: 02/25/2016  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
public class Question4   
{  
 public static void main(String[] args)  
 {  
   
 int totalSeconds = 200;  
   
 int hours = totalSeconds / 3600;  
 int remainder = totalSeconds % 3600;  
   
 int minutes = remainder / 60;  
 remainder = remainder % 60;  
   
 int seconds = remainder;  
 System.out.println(+totalSeconds+" seconds is equivalent to "+hours+" hours, "+minutes+" minutes and "+seconds+" seconds.");   
   
 }  
}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 \*File Name: Question5  
 \*Purpose: To find value of sine, cosine and sum  
 \*Programmer: Sagun Pandey  
 \*Last Updated Date: 02/25/2016  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  
public class Question5   
{  
  
 public static void main(String[] args)  
 {  
   
 double value = 0.5236;  
   
 double sinx = Math.sin(value);  
 double cosx = Math.cos(value);  
 double sum = Math.pow(sinx,2) + Math.pow(cosx,2);  
   
 System.out.println("sine: " + sinx + " cosine: " + cosx + " sum: "+sum);  
   
   
 }  
   
}