**DD1339 Introduktion till datalogi 2013/2014**

**Uppgift nummer: Hemuppgift 3**

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**Grupp nummer: 5**

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**Betyg: ..... Datum: ..... Rättad av: .....**

## Resterande uppkgift från hemuppgift 2:

Jag missade att det var en extra uppgift att göra i förra hemuppgiften och blev ombedd att skriva den denna gång. Därav bifogar jag koden av endast den metoden.

Implement a method `setPrice` that sets the price of tickets to a new value. The new price should be passed as a parameter to the method. Test your new method by creating a machine, showing the price of tickets, changing the price, and then showing the new price.

```
/**
    * This method will change the prive of the tickets.
    * Not possible to enter negative value. Then price will automatically be set to 0.
    * @param price Enter new price of the tickets.
    */
   public void setPrice(int price){
      if(price>0){
         this.price = price;
      } else {
         this.price=0;
      }
   }
```

## Exercise 2.92 och 2.93

### Nedan följer källkod från klassen Heater:

```
/**
 * This is a student project that simulates a heating control unit where you can increase or decrease
the temperature.
 *
 * @author (Marcus Larsson)
 * @version 2013-09-14
 */
public class Heater
{
   private double temperature, min, max, increment;

   /**
    * Constructor for objects of class Heater.
    * You have to set the minimun and maximun allowed temperature upon creation.
    * @param inMin Enter the minimum allowed temperature.
    * @param inMax Enter the maximum allowed temperature.
    */
   public Heater(double inMin, double inMax)
   {
      temperature = 15.0;
      min = inMin;
      max = inMax;
      increment = 5.0;
   }

   /**
```

```
    * This method will increase the temperature.
    * If trying to increase above maximun allowed temperature,
    * the temperature will be set to the maximun allowed value instead.
    */
   public void warmer()
   {
      double newTemperature = temperature + increment;
      if(newTemperature<=max)
      {
         if(newTemperature>temperature){
            setTemperature(newTemperature);
         }
      }else{
         System.out.println("Too high!!! Maximum allowed temperature is: "+max);
         setTemperature(max);
      }
   }

   /**
    * This method will decrease the temperature.
    * If trying to decrease below minimum allowed temperature,
    * the temperature will be set to the minimum allowed value instead.
    */
   public void cooler()
   {
      double newTemperature = temperature - increment;
      if(newTemperature>=min)
      {
         if(newTemperature<temperature){
            setTemperature(newTemperature);
         }
      }else{
         System.out.println("Too low!!! Minimum allowed temperature is: "+min);
         setTemperature(min);
      }
   }

   /**
    * This is a private method that supports the methods warmer and cooler.
    * It only sets the temperature to what the other methods are requesting and prints out a message
about the new temperature.
    */
   private void setTemperature(double newTemperature){
      temperature=newTemperature;
      System.out.println("Temperature was set to: "+temperature);
   }

   /**
    * This method will set the value of which the methods cooler and warmer will decrease or
increase with.
    * The value cannot be set to negative. If trying to set a negative number, no new value will be set
and an error will be printed to the screen.
```

```
     * @param newIncrement Enter a positive number.
     */
    public void setIncrement(double newIncrement)
    {
        if(newIncrement>0)
        {
            increment = newIncrement;
        }else{
            System.out.println("An increment cannot be less than 0...");
        }

    }

    /**
     * This method will return the current temperature
     * @return The current temperature of this Heater object.
     */
    public double getTemperature(){
        return temperature;
    }
}
```