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Course: CS1073

Section: FR03B

Lab number: 3

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Bunk.java:

```
/**
 Class representing a bed at a sleep-away camp
 for children and teens.
 @author Zohaib Khan 3740572
public class Bunk {
   /**
   Name of the building.
   */
   private String name;
   /**
   The bed number.
   private int num;
   /**
   Cost of the bunk per week.
   private double cost;
   /**
    Constructor method to initiatize the instance variables.
    @param nameIn the name of the building.
    @param numIn the bed number.
    @param costIn the cost of the bunk per week.
   public Bunk (String nameIn, int numIn, double costIn) {
     name = nameIn;
     num = numIn;
      cost = costIn;
   }
   /**
   Gets the name of the building.
   @return the name of the building.
   public String getName () {
     return name;
```

```
/**
  Gets the bed number.
  @return the bed number.
*/
public int getNum () {
    return num;
}

/**
  Gets the cost of the bunk per week.
  @return the cost of the bunk per week.
*/
public double getCost () {
    return cost;
}

//end class
```

Camper.java:

```
/**
Class to represent a child or teen
who is staying at the sleep-away camp.
@author Zohaib Khan 3740572
public class Camper {
   /**
   The full name of the child or teen.
   * /
   private String name;
   /**
    The amount to be paid per week for the program.
   private double campFees;
   /**
    The amount to be paid per week for extra activities.
   private double excursionFees;
   /**
    The amount of funding the camper receives each week.
   private double fundingSupport;
   /**
   The bunk where the camper is staying.
   private Bunk bunk;
   /**
    The constructor method to initialize the instance variables.
    @param nameIn the name of the camper.
    @param campFeesIn the amount to be paid per week for the program.
    @param excursionFeesIn the amount to be paid per week for extra
    activities.
    @param fundingSupportIn the amount of funding the camper receives
    each week.
    @param bunkIn the bunk where the camper is staying.
   */
   public Camper (String nameIn, double campFeesIn, double
   excursionFeesIn, double fundingSupportIn, Bunk bunkIn) {
      name = nameIn;
      campFees = campFeesIn;
```

```
excursionFees = excursionFeesIn;
   fundingSupport = fundingSupportIn;
  bunk = bunkIn;
/**
The constructor method to initialize the instance variables.
@param nameIn the name of the camper.
@param campFeesIn the amount to be paid per week for the program.
Oparam excursionFeesIn the amount to be paid per week for extra
activities.
@param fundingSupportIn the amount of funding the camper receives
each week.
@param bunkNameIn the name of the building where the camper is
staying.
@param numIn the bed number where the camper is staying.
@param costIn the cost of the bunk where the camper is staying.
public Camper (String nameIn, double campFeesIn, double
excursionFeesIn, double fundingSupportIn, String bunkNameIn, int
numIn, double costIn) {
  name = nameIn;
   campFees = campFeesIn;
  excursionFees = excursionFeesIn;
   fundingSupport = fundingSupportIn;
  bunk = new Bunk (bunkNameIn, numIn, costIn);
}
/**
Sets the name of the child or teen.
@param nameIn the name of the child or teen.
public void setName (String nameIn) {
  name = nameIn;
}
/**
Sets the amount to be paid per week for the program.
Oparam campFeesIn the amount to be paid per week for the program.
public void setCampFees (double campFeesIn) {
  campFees = campFeesIn;
}
/**
Sets the amount to be paid per week for extra activites.
@param excursionFeesIn the amount to be paid per week for extra
activities.
public void setExcursionFees (double excursionFeesIn) {
   excursionFees = excursionFeesIn;
```

```
}
   /**
   Sets the amount of funding the camper receives per week.
   @param fundingSupportIn the amount of funding the camper receives
   per week.
  */
   public void setFundingSupport (double fundingSupportIn) {
     fundingSupport = fundingSupportIn;
   /**
   Sets the bunk where the camper is staying.
   @param bunkIn the bunk where the camper is staying.
   public void setBunk (Bunk bunkIn) {
     bunk = bunkIn;
   /**
   Sets the bunk where the camper is staying.
   @param nameIn the name of the building where the camper is
   staying.
   @param numIn the bed number where the camper is staying.
   @param costIn the cost of the bunk where the camper is staying.
   */
   public void setBunk (String nameIn, int numIn, double costIn) {
     bunk = new Bunk (nameIn, numIn, costIn);
   }
   /**
   This method returns the total fees that must
   be paid to the camp this week.
   @return the total fees that must be paid to the camp this week.
  public double getTotalWeeklyFeesOwing () {
      return campFees + excursionFees + bunk.getCost() -
     fundingSupport;
   }
   /**
   This method returns a textual string that includes
   the camper's name and bunk location.
   @return the textual string that includes the
   camper's name and bunk location.
   */
   public String getOnSiteMailLabel () {
     return name + "\n"
     + bunk.getName() + ", bed " + bunk.getNum();
} //end class
```

Lab3TestDriver.java:

```
/**
This is a driver program for Camper class and Bunk class.
@author Zohaib Khan 3740572
public class Lab3TestDriver {
  public static void main (String[] args) {
      Camper obj1 =
      new Camper ("Anna Marie Sullivan", 250.00, 148.30, 150.00,
      "Chickadee Lodge", 7, 155.75);
      Camper obj2 =
      new Camper ("Porter Smith", 340.00, 277.88, 0, "Moose Hall", 16,
      131.25);
      Camper obj3 =
      new Camper ("Katharine Doucet", 565.30, 0, 175.00, "Brookside
      Cabin", 11, 385.00);
      obj1.setExcursionFees (178.80);
      obj2.setBunk ("Wolf Lodge", 9, 147.00);
      obj3.setCampFees (525.00);
      System.out.println("Mail Label 1: \n"
      + obj1.getOnSiteMailLabel() + "\n"
      + "Total weekly fees owing: " + obj1.getTotalWeeklyFeesOwing()
      + "\n");
      System.out.println("Mail Label 2: \n"
      + obj2.getOnSiteMailLabel() + "\n"
      + "Total weekly fees owing: " + obj2.getTotalWeeklyFeesOwing()
      + "\n");
      System.out.println("Mail Label 3: \n"
      + obj3.getOnSiteMailLabel() + "\n"
      + "Total weekly fees owing: " + obj3.getTotalWeeklyFeesOwing()
      + "\n");
   }
} //end class
```

Lab3Output.txt:

Mail Label 1:
Anna Marie Sullivan
Chickadee Lodge, bed 7
Total weekly fees owing: 434.5499999999995

Mail Label 2:
Porter Smith
Wolf Lodge, bed 9
Total weekly fees owing: 764.88

Mail Label 3:
Katharine Doucet
Brookside Cabin, bed 11
Total weekly fees owing: 735.0