Metropolitan State University, St. Paul, Minnesota ICS 372 Object-Oriented Design and Implementation Class Exercise Week 1 Solution

Problem 1

The line to print the area is extraneous and shouldn't be here. It is not part of the functionality. It can be a nuisance for the user to see such displays, because it could be part of a larger computation. If it is within a GUI program, the print method serves no purpose at all.

```
The revised code is given below.
public double computeArea(double length, double width) {
  double area = length * width;
  return area;
}
Problem 2
public class DiskDrive {
Problem 10
public class Time {
       private int hour;
       private int minute;
       public Time(int hour, int minute) {
              this.hour = hour;
              this.minute = minute;
       public Time() {
              this(12, 30);
       public int getHour() {
              return hour;
       }
       public void setHour(int hour) {
              this.hour = hour;
       public int getMinute() {
```

```
return minute;
       }
       public void setMinute(int minute) {
              this.minute = minute;
       }
}
Problem 11
public class Project {
       private String name;
       private double budget;
       private List<Assignment> assignments = new LinkedList<Assignment>();
}
public class Employee {
       private String name;
       private List<Assignment> assignments = new LinkedList<Assignment>();
}
public class Assignment {
       private Project project;
       private Employee employee;
       private double appointment;
}
Problem 12
A constructor
B constructor
In A f
Problem 14
public class C1 implements I1, I2 {
       public void m1() {
       public void m2(int x) {
}
```