Consider the following Student class:

```
public class Student {
     private String name;
      private long id;
      private float midterm;
      private float finalExam;
      public Student(String name, long id) {
            this.name = name;
            this.id = id;
      public void setMidterm (float midterm) {
            this.midterm = midterm;
      public void setFinal (float finalExam) {
            this.finalExam = finalExam;
     public double getExamAverage() {
            return (this.midterm + this.finalExam) / 2.0;
      public String toString(){
            String result = name;
            result += id + "\n";
            result += midterm + " " + finalExam;
            return result;
}
```

Write a class (i.e., a program) that instantiates a Student object for the following student:

Jeff Johnson, id = 95382

Midterm Exam grade = 75.75, Final Exam grade = 82.3

Once instantiated, this class should use instance methods to:

- output all the object's attributes, and then
- calculate and output the average exam grade.

Student Tester & public class public static void main (string [] args) {
5tudent jeff = new Student ("Jeff Johnson", 95382) jeff. set Midterm (75.75); jeff & set Final (82.3);

System.out. println (jeff. to Sving ());

System.out. printly (MAA "Average grade = "+ jeff. get Exem Average

Now consider the UVicStudent class, which uses the UVicPerson interface:

```
public interface UVicPerson {
    // data attributes
    // constructor(s)

    public void <u>setnewName(String newName);</u>
    public String toString();
}
```

```
public class UVicStudent implements UVicPerson{
   private String name;
   private long id;
   private float midterm;
    private float finalExam;
          public UVicStudent(String name, long id) {
          this.name = name;
          this.id = id;
   public void setMidterm (float midterm) {
          this.midterm = midterm;
    }
   public void setFinal (float finalExam) {
          this.finalExam = finalExam;
   public double getExamAverage() {
          return (this.midterm + this.finalExam) / 2.0;
    }
   public String toString(){
          String result = name;
          result += id + "\n";
          result += midterm + " " + finalExam;
          return result;
    }
}
```

Although incredibly similar to the class in question #1, this class will not compile (ie, javac UVicStudent.java produces an error message. What is the wrong?

The interface requires a setnewhame (string newhame) mothers!
But it was not in the class.

3. On the back of this page write another java class that will be used to instantiate java Objects. The class will be called UVicEmployee and it will also implement the UVicPerson interface. Your class should have private data attributes name, id, salary, and contract end date. It should include the necessary methods, including those from the interface and suitable accessor and mutator methods.

```
implements UVic Person }
        public class UVic Employee
                 private string name.
                  private long id
                 private double salary;
private string end Date;
                public UVic Employee ();
this name = ";
id = 0;
bebein
                      salay=0; "January 0,0"; endDate = "January 0,0";
                  public UVic Emptyeo (Strug new Home, long new ID, public UVic Emptyeo (Strug new Henry) Strug the Day) }
                 this. mame = reultonie;
                       id= reut D;
salory=the Salory;
end Date=the Day;
                  public void setroullane (string reallance) {
                          name = new Vanne;
                 public to String () }.
                     strong return Value ="")
return Value += name + " + id + " n";
return Value += name + " " + id + " n";
                      return Value += "Salary:" + salary + ""
                  3 returnialis += "EndoSate:" + endDate;
                                          NOTE: This answer does NOT get
                                             feel marks because it does not
```

include accessor and mutator methods!