QUESTION 1

```
package a2;
//Represents a college student.
public class Student
{

private String firstName, lastName;
private String homeAddress, schoolAddress;          // changed Address to string
private int test1, test2, test3;                    // added test scores

private int testNum;
private int testScore;

//-----------------------------------------------------------------
//  Constructor: Sets up this student with the specified values.
public Student(String first, String last, String home,
               String school, int test1, int test2, int test3)           //edited
constructor to add tests
{
  firstName = first;
  lastName = last;
  homeAddress = home;
  schoolAddress = school;
  this.test1= test1;                                                  //added test scores
  this.test2= test2;
  this.test3= test3;
}
//-----------------overloaded constructor that assumes tests are 0
public Student(String first, String last, String home,
        String school) {

             firstName = first;
             lastName = last;
             homeAddress = home;
             schoolAddress = school;
}
//------------------------------my method to set a score for a test
public String setTestScore(int testNum, int testScore) {

       if(testNum == 1)
              test1=testScore;
       if(testNum == 2)
              test2=testScore;
       if(testNum == 3)
              test3=testScore;
       if(testNum>3)
              return "This test does not exst. Enter scores for test 1, 2 or 3.";

       return "You set test " + testNum + " at score " + testScore;
}
//------------------------------gets the score for a test
public String getTestScore(int testNum) {

       if(testNum==1) {
       return "Test " + testNum + " has score " + test1;
```

```
	}

	if(testNum==2) {
		return "Test " + testNum + " has score " + test2;
	}

	if(testNum==3) {
		return "Test " + testNum + " has score " + test3;
	}
	else
	return "Error, that test does not exist. Enter test 1-3";
}
//--------------------------------average method

public String average() {

	double average = (test1 + test2 + test3)/3;
	return "Their average test scores is " + average;
}
//-----------------------  Returns a string description of this Student object.


public String toString()
{
  String result;

  result = "\n" + firstName + " " + lastName + "\n";
  result += "Home Address:\n" + homeAddress + "\n";
  result += "School Address:\n" + schoolAddress + "\n";
  result += "Test Score 1 is " + test1 + "\n";
  result += "Test Score 2 is " + test2 + "\n";
  result += "Test Score 3 is " + test3 + "\n";

  result += average();          //added average to toString

  return result;
}
}
```

DRIVER FOR Q1

```
package a2;
public class StudentDriver {

	public static void main(String[] args) {

		Student s1 = new Student("Ben", "Smith", " 1240 Favella Dr.", "214
Humewood",87,95,76);

		System.out.println(s1);

		System.out.println("\n" + s1.setTestScore(3, 77));
		System.out.println(s1.setTestScore(2, 99));
		System.out.println(s1.setTestScore(1, 80));
```

```
            System.out.println("\n" + s1.getTestScore(3));
            System.out.println(s1.average());
      }
}
```

OUTPUT:

```
Ben Smith
Home Address:
 1240 Favella Dr.
School Address:
214 Humewood
Test Score 1 is 87
Test Score 2 is 95
Test Score 3 is 76
Their average test scores is 86.0

You set test 3 at score 77
You set test 2 at score 99
You set test 1 at score 80

Test 3 has score 77
Their average test scores is 85.0
```
