This document shows the output from the test run of the DataStructure and Student classes. My comments will be in red. Data input from the console is in blue and output of the test program is in black.

Student1 is generally a blank student. The only thing we see when it is printed out is the gpa. Both Strings are blank.

Student2 is generated from the general constructor using data which are inputted to the test program.

Student3 is added from the "input" method of the Student class.

Student4 is generated from a blank Student followed by use of the "set" method.

Please enter sample student data.

First the name:

Student2

Now the id

S2

Finally the gpa

3.5

Check the toString method for a blank student

0.0

Check the toString method for the test student

Student2S23.5

Now create a third blank student and use the input method

Please enter sample student data.

First the name:

Student3

Now the id

adgjba;ija;ojag

Finally, the gpa

1.5

Student 3 is:

Student3adgjba;ija;ojag1.5

Now check the set method

0.0 // This line is the output from a blank student before setting.

Student4number42.5 // This is the output after setting.

Now check the get methods

Student2

S2

3.5

The two constructors below are from the DataStructure class. The add and showAll methods are also tested here.

Using the four students from above create and output the list

use the default constructor

0.0

Student2S23.5

Student3adgjba;ija;ojag1.5

Student4number42.5

The size of the array is:100

use the general constructor

0.0

Student2S23.5

Student3adgjba;ija;ojag1.5

Student4number42.5

The size of the array is:50