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Student.java

```java
public class Student{//open class

        //create variables

        private String name;

        private int Idnumber;

        private String course;


        public Student(){//open constructor method

                //give variables values, unassigned or similar for data type

                name = "unassigned";

                Idnumber = 0;

                course = "unassigned";

        }//close constructor


        public String getName(){//open name getter

                return name;

        }//close name getter


        public int getId(){//open id getter

                return Idnumber;

        }//close id getter


        public String getCourse(){//open course getter

                return course;

        }//close course getter
```

```java
        public void setName(String Name){//open name setter

                name = Name;

        }//close name setter


        public void setId(int Id){//open id setter

                Idnumber = Id;

        }//close id setter


        public void setCourse(String Course){//open course setter

                course = Course;

        }//close course setter
}//close class


StudentTest.java

public class StudentTest{//open class


        public static void main(String[] args){//open main method

                //create student array  object of length 3. Populate with student objects

                Student[] students = new Student[3];

                for (int num = 0; num < students.length; num++){//open for loop

                        students[num] = new Student();

                }//close for loop

                //print out variables of a student object to test constructor

                System.out.println("-----------------------");

                System.out.println("Student Constructor Test");

                System.out.println("-----------------------");

                System.out.println(students[0].getName());
```

```java
                System.out.println(students[0].getCourse());

                System.out.println(students[0].getId());


                System.out.println("\nStudent Data");

                System.out.println("------------");

                //change variables of student objects using setter methods

                students[0].setName("John Doe");

                students[1].setName("Jane Doe");

                students[2].setName("John Smith");


                students[0].setCourse("2BA");

                students[1].setCourse("2BA");

                students[2].setCourse("2BSc");


                students[0].setId(12345678);

                students[1].setId(87654321);

                students[2].setId(12348765);

                //use for loop to print variables using getter methods

                for (int num = 0; num < students.length; num++){//open for loop

                        System.out.println("Name: "+students[num].getName());

                        System.out.println("Course: "+students[num].getCourse());

                        System.out.println("ID Number: "+students[num].getCourse()+"\n");

                }//close for loop

        }//close main method

}//close class
```

```
------------------------
Student Constructor Test
------------------------
unassigned
unassigned
0

Student Data
------------
Name: John Doe
Course: 2BA
ID Number: 2BA

Name: Jane Doe
Course: 2BA
ID Number: 2BA

Name: John Smith
Course: 2BSc
ID Number: 2BSc
```