Java Program Structure

Java's Program Structure | Wikipedia

This is the prescribed Program Structure for a Java Class.

```
import java.util.Objects;
 * @author divyanshbhardwaj
* @version 1.0
 * This class is the definition class for a 'Student'.
 * */
public class Student {
   private String studentName;
   private long contactNumber;
   private double currentCPI;
   private String officialEmailAddress;
   public String getStudentName() {
        return studentName;
   public void setStudentName(String studentName) {
       this.studentName = studentName;
   public long getContactNumber() {
        return contactNumber;
   public void setContactNumber(long contactNumber) {
        this.contactNumber = contactNumber;
   public double getCurrentCPI() {
       return currentCPI;
    }
   public void setCurrentCPI(double currentCPI) {
       this.currentCPI = currentCPI;
   }
   public String getOfficialEmailAddress() {
        return officialEmailAddress;
   public void setOfficialEmailAddress(String officialEmailAddress) {
        this.officialEmailAddress = officialEmailAddress;
   }
```

```
public Student(String studentName, long contactNumber, double currentCPI,
String officialEmailAddress) {
       this.studentName = studentName;
        this.contactNumber = contactNumber;
        this.currentCPI = currentCPI;
        this.officialEmailAddress = officialEmailAddress;
    }
    @Override
    public String toString() {
        return "Student{" +
                "studentName='" + studentName + '\'' +
                ", contactNumber=" + contactNumber +
                ", currentCPI=" + currentCPI +
                ", officialEmailAddress='" + officialEmailAddress + '\'' +
                '}';
    }
    @Override
    public boolean equals(Object newObject) {
        if (this == newObject) {
            return true;
        if (newObject == null || getClass() != newObject.getClass()) {
            return false;
        Student student = (Student) newObject;
        return getContactNumber() == student.getContactNumber() &&
                Double.compare(student.getCurrentCPI(), getCurrentCPI()) == 0 &&
                getStudentName().equals(student.getStudentName()) &&
getOfficialEmailAddress().equals(student.getOfficialEmailAddress());
    }
    @Override
    public int hashCode() {
        return Objects.hash(getStudentName(), getContactNumber(), getCurrentCPI(),
getOfficialEmailAddress());
   }
}
```