Student Solve Course Quiz

1. Identify the attributes of the following objects

Attributes:

- STUDENT_ID
- STUDENT_NAME
- COURSE_ID
- COURSE_NAME
- COURSE_CODE
- QUIZ_ID
- QUIZ_MARKS
- QUIZ_TOTALQUESTIONS
- QUIZ_OBTAINEDMARKS
- QUIZ_TIME

2. Create the classes of the following Objects

- MAIN_MENU
- STUDENT
- STUDENT_DATA
- QUIZ
- QUIZ_DATA

Main_Menu

```
package uog.edu.main;
import java.util.ArrayList;
import java.util.List;

import uog.edu.student.*;
public class MAIN_CLASS {

	public static void main(String[] args) {
		System.out.println("STFILEPATH");
		List<STUDENT> students = new ArrayList<STUDENT>();
		//writeoncsv("STFILEPATH");
		STUDENT student = new STUDENT();
		student.setSTUDENT_ID(1);
		student.setSTUDENT_NAME("Shahbaz");
		student.setSTUDENT_SEM(2);
		student.setSTUDENT_DEPT("Computer Science");
```

```
                students.add(student);

                STUDENT student2 = new STUDENT();
                student2.setSTUDENT_ID(2);
                student2.setSTUDENT_NAME("Muhammad");
                student2.setSTUDENT_SEM(5);
                student2.setSTUDENT_DEPT("Psychology");
                students.add(student2);

                STUDENT student3 = new STUDENT();
                student3.setSTUDENT_ID(3);
                student3.setSTUDENT_NAME("Ahmad");
                student3.setSTUDENT_SEM(6);
                student3.setSTUDENT_DEPT("Math");
                students.add(student3);

                STUDENT student4 = new STUDENT();
                student4.setSTUDENT_ID(4);
                student4.setSTUDENT_NAME("Abdur-Rahman");
                student4.setSTUDENT_SEM(1);
                student4.setSTUDENT_DEPT("Software Engineering");
                students.add(student4);

                /*for
                System.out.println(student.toString());
                */
                //
                students.add(student);
                students.add(student2);
                students.add(student3);
                students.add(student4);

                STUDENT_DATA studentdata = new STUDENT_DATA();
                List<STUDENT> allstudents = studentdata.findAll();
                System.out.println(allstudents.toString());
        }

}
```

QUIZ DATA

```
package uog.edu.quiz;

import java.util.ArrayList;
import java.util.List;

import uog.edu.student.STUDENT;

public class QUIZ_DATA extends QUIZ{
        private static String QUIZ_PATH = "C:\\Users\\shahb\\workspace\\MID TERM
EXAM\\src\\uog\\edu\\quiz\\quiz.csv";

        public static void writeoncsv(String QUIZ_PATH) {
                List<STUDENT> students = new ArrayList<STUDENT>();
                //STUDENT student = new Student
        }


}
```

QUIZ

```
package uog.edu.quiz;

public class QUIZ {
        private int QUIZ_ID;
```

```
	private String QUIZ_NAME;
	private int QUIZ_TOTALMARKS;
	private int QUIZ_DURATIONinHOURS;
	private int QUIZ_MARKSOBTAINED;
	private int QUIZ_TYPE;
	private int QUIZ_TOPIC;
	public int getQUIZ_ID() {
		return QUIZ_ID;
	}
	public void setQUIZ_ID(int qUIZ_ID) {
		QUIZ_ID = qUIZ_ID;
	}
	public String getQUIZ_NAME() {
		return QUIZ_NAME;
	}
	public void setQUIZ_NAME(String qUIZ_NAME) {
		QUIZ_NAME = qUIZ_NAME;
	}
	public int getQUIZ_TOTALMARKS() {
		return QUIZ_TOTALMARKS;
	}
	public void setQUIZ_TOTALMARKS(int qUIZ_TOTALMARKS) {
		QUIZ_TOTALMARKS = qUIZ_TOTALMARKS;
	}
	public int getQUIZ_DURATIONinHOURS() {
		return QUIZ_DURATIONinHOURS;
	}
	public void setQUIZ_DURATIONinHOURS(int qUIZ_DURATIONinHOURS) {
		QUIZ_DURATIONinHOURS = qUIZ_DURATIONinHOURS;
	}
	public int getQUIZ_MARKSOBTAINED() {
		return QUIZ_MARKSOBTAINED;
	}
	public void setQUIZ_MARKSOBTAINED(int qUIZ_MARKSOBTAINED) {
		QUIZ_MARKSOBTAINED = qUIZ_MARKSOBTAINED;
	}
	public int getQUIZ_TYPE() {
		return QUIZ_TYPE;
	}
	public void setQUIZ_TYPE(int qUIZ_TYPE) {
		QUIZ_TYPE = qUIZ_TYPE;
	}
	public int getQUIZ_TOPIC() {
		return QUIZ_TOPIC;
	}
	public void setQUIZ_TOPIC(int qUIZ_TOPIC) {
		QUIZ_TOPIC = qUIZ_TOPIC;
	}

	public void ADD() {

	}

	public void UPDATE() {

	}

	public void DELETE() {

	}

	public String toString() {
		String str = null;
		str = this.QUIZ_ID + "," + this.QUIZ_NAME + "," + this.QUIZ_TYPE + "," +
				this.QUIZ_TOPIC + "," + this.QUIZ_DURATIONinHOURS + "," +
this.QUIZ_TOTALMARKS + "," + this.QUIZ_MARKSOBTAINED;
		return str;
}
}
```

STUDENT DATA

```
package uog.edu.student;

import java.io.BufferedReader;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.io.ObjectInputStream.GetField;
import java.util.ArrayList;
import java.util.List;

public class STUDENT_DATA extends STUDENT {
	private static String STFILEPATH = "C:\\Users\\shahb\\workspace\\MID TERM
EXAM\\src\\uog\\edu\\student\\students.txt";

	public static void writeoncsv(String STFILEPATH) {
		List<STUDENT> allstudents = new ArrayList<STUDENT>();
		STUDENT student = new STUDENT();
		student.setSTUDENT_ID(1);
		student.setSTUDENT_NAME("Shahbaz");
		student.setSTUDENT_SEM(2);
		student.setSTUDENT_DEPT("Computer Science");
		allstudents.add(student);

		STUDENT student2 = new STUDENT();
		student2.setSTUDENT_ID(2);
		student2.setSTUDENT_NAME("Muhammad");
		student2.setSTUDENT_SEM(5);
		student2.setSTUDENT_DEPT("Psychology");
		allstudents.add(student2);

		STUDENT student3 = new STUDENT();
		student3.setSTUDENT_ID(3);
		student3.setSTUDENT_NAME("Ahmad");
		student3.setSTUDENT_SEM(6);
		student3.setSTUDENT_DEPT("Math");
		allstudents.add(student3);

		STUDENT student4 = new STUDENT();
		student4.setSTUDENT_ID(4);
		student4.setSTUDENT_NAME("Abdur-Rahman");
		student4.setSTUDENT_SEM(1);
		student4.setSTUDENT_DEPT("Software Engineering");
		allstudents.add(student4);

		FileWriter fw = null;
		try {
			fw = new FileWriter(STFILEPATH);

			fw.append("STUDENT_ID, STUDENT_NAME, STUDENT_DEPT, STUDENT_SEM" );

			for(STUDENT u : allstudents) {
				fw.append(String.valueOf(u.getSTUDENT_ID()));
				fw.append(", ");

				fw.append(u.getSTUDENT_NAME());
				fw.append(", ");

				fw.append(u.getSTUDENT_DEPT());

				fw.append(", ");
				fw.append(String.valueOf(u.getSTUDENT_SEM()));
				fw.append("\n");
			}
		}
		catch(Exception e) {
		e.printStackTrace();
```

```
		}
	}
		public static void Readfromcsv() {
			BufferedReader br = null;

			try {
				List<STUDENT> students = new ArrayList<STUDENT>();
				String line = "";
				br = new BufferedReader(new FileReader(STFILEPATH));
				br.readLine();
				while((br.readLine()) != null) {
					String[] fields = line.split(", ");

					if(fields.length > 0) {
						STUDENT student5 = new STUDENT();
						student5.setSTUDENT_ID(Integer.parseInt(fields[0]));
						student5.setSTUDENT_NAME(fields[1]);
						student5.setSTUDENT_SEM(Integer.parseInt(fields[2]));
						student5.setSTUDENT_DEPT(fields[3]);
						students.add(student5);
					}
					for(STUDENT u: students) {
						System.out.printf("[STUDENT_ID=%d, STUDENT_NAME=%S,
STUDENT_SEM=%r, STUDENT_DEPT=%B]", u.getSTUDENT_ID(), u.getSTUDENT_NAME(), u.getSTUDENT_SEM(),
u.getSTUDENT_DEPT());
					}
				}
			}
			catch(Exception e){
				e.printStackTrace();
			}
		}

		public List<STUDENT> findAll(){
			List<STUDENT> students = new ArrayList<STUDENT>();
			String line;
			try {
			BufferedReader br = new BufferedReader(new FileReader(this.STFILEPATH));

			while((line = br.readLine()) != null) {
			STUDENT student = new STUDENT();
			String[] studentrow = line.split(",");
			student.setSTUDENT_ID(Integer.parseInt(studentrow[0]));
			student.setSTUDENT_NAME((studentrow[1]));
			student.setSTUDENT_SEM(Integer.parseInt(studentrow[3]));
			student.setSTUDENT_DEPT((studentrow[4]));
			students.add(student);
			}

			}

			catch(IOException e) {

			}
			return students;
			}
}
```

STUDENT

```
package uog.edu.student;

public class STUDENT {
	private int STUDENT_ID;
	private String STUDENT_NAME;
	private String STUDENT_DEPT;
	private int STUDENT_SEM;
```

```
	public int getSTUDENT_ID() {
		return STUDENT_ID;
	}
	public void setSTUDENT_ID(int sTUDENT_ID) {
		STUDENT_ID = sTUDENT_ID;
	}
	public String getSTUDENT_NAME() {
		return STUDENT_NAME;
	}
	public void setSTUDENT_NAME(String sTUDENT_NAME) {
		STUDENT_NAME = sTUDENT_NAME;
	}
	public String getSTUDENT_DEPT() {
		return STUDENT_DEPT;
	}
	public void setSTUDENT_DEPT(String sTUDENT_DEPT) {
		STUDENT_DEPT = sTUDENT_DEPT;
	}
	public int getSTUDENT_SEM() {
		return STUDENT_SEM;
	}
	public void setSTUDENT_SEM(int sTUDENT_SEM) {
		STUDENT_SEM = sTUDENT_SEM;
	}

	public String toString() {
		String str = null;
		str = this.STUDENT_ID + "," + this.STUDENT_NAME + "," + this.STUDENT_SEM + "," +
				this.STUDENT_DEPT;
		return str;
	}

}
```