**19Z311-OBJECT ORIENTED PROGRAMMING LABORATORY**

**JAVA PROJECT REPORT**

**BATCH:- 4**

**TOPIC:-** STUDENT ATTENDANCE TRACKER

**GROUP MEMBERS:-**

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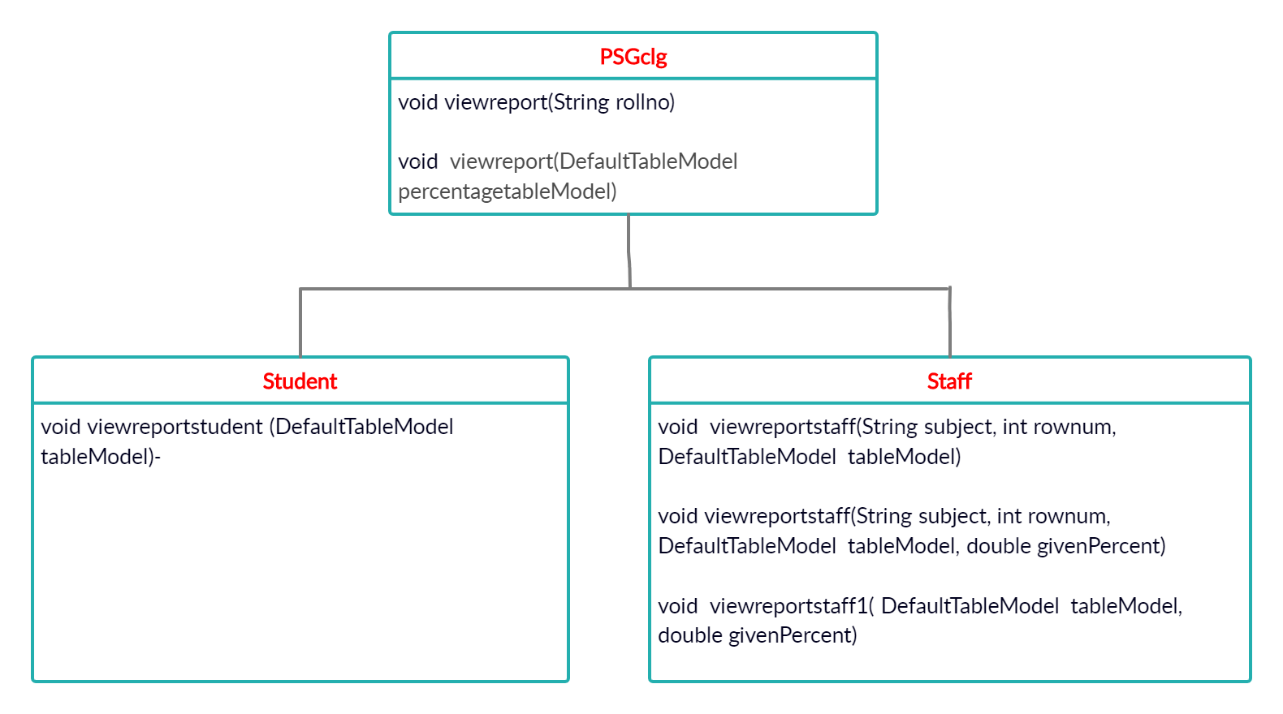
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**PROBLEM STATEMENT:**

“ATTENDANCE TRACKER” is a project developed in java for maintaining the attendance of the students on daily basis in college. It facilitates to access the attendance information of a particular student in a particular subject and also in all subjects. This system also helps in evaluating attendance eligibility criteria of a student.

**CLASS DIAGRAM:**



**USERS:**

* Staff
* Student/Parent

**FEATURES AVAILABLE TO THE USERS:**

In our project, the attendance of the students can be viewed in six different formats by a staff. A student can view his/her attendance in two different formats. The user can view the number of late, excused and unexcused absence and also the present percentage of the student. The attendance percentage is calculated by dividing the number of hours present by total number of hours (varies from subject to subject) multiplied by 100.

The six different ways of viewing by staffs are

* FILTER BY STUDENT

**Input:** Student’s Roll number

**Output**:It displays the name, roll number, present percentage of the given roll number in all subjects in the table format.

* FILTER BY SUBJECT

**Input**: Subject name

**Output**:It displays the name, roll number, attendance percentage, present, absent, excused leave and unexcused leave of the all the students in a class for a given subject.

* VIEW FOR A PARTICULAR SUBJECT FOR A PARTICULAR STUDENT

**Input**: Subject name and Student’s Roll number

**Output**: It displays the name, roll number, present, absent, excused leave, unexcused leave and the attendance percentage of the given roll number in the given subject.

* FILTER BY STUDENT-PERCENTAGE - GIVEN SUBJECT

**Input**: Percentage below which you want the details and Subject name

**Output**: It displays the roll number, present, absent, excused leave, unexcused leave and the attendance percentage for the students whose attendance are below the given percentage in the given subject.

* VIEW ALL STUDENTS ALL SUBJECTS-PERCENTAGE

**No input**

**Output**: It displays the name, roll number, attendance percentage of all students in all the subjects.

* DISPLAY STUDENTS WHO LACK ATTENDANCE ALONG WITH THE SUBJECT

**Input**: Percentage

**Output**: It displays the name, roll number, subjects, attendance percentage of the respective subject of all the students whose attendance are below the given percentage in all subjects.

The two different ways of viewing by a student are

* VIEW PRESENT, LATE, EXCUSED AND UNEXCUSED LEAVE, PRESENT PERCENTAGE

**Input**: Student’s Roll number

**Output**:It displays the subject name, present, absent, excused leave, unexcused leave and the attendance percentage of the given roll number in all the subjects.

* VIEW ONLY PERCENTAGE

**Input**: Student’s Roll number

**Output**:It displays the roll number, name, attendance percentage of the given roll number in all the subjects.

In our project after choosing the user, you can view for one particular month or for all months (August,September,October)

1. August
2. September
3. October
4. All

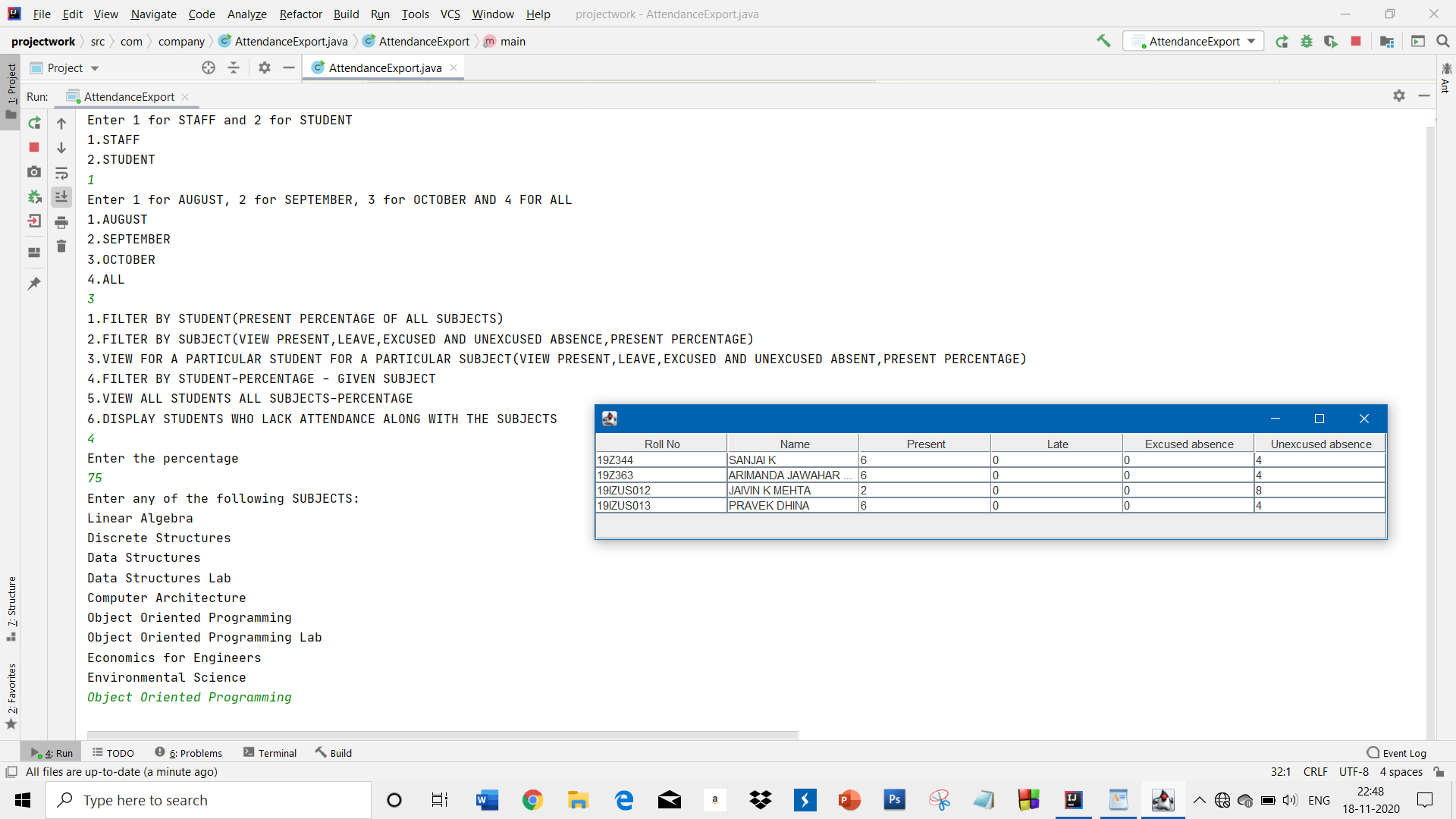
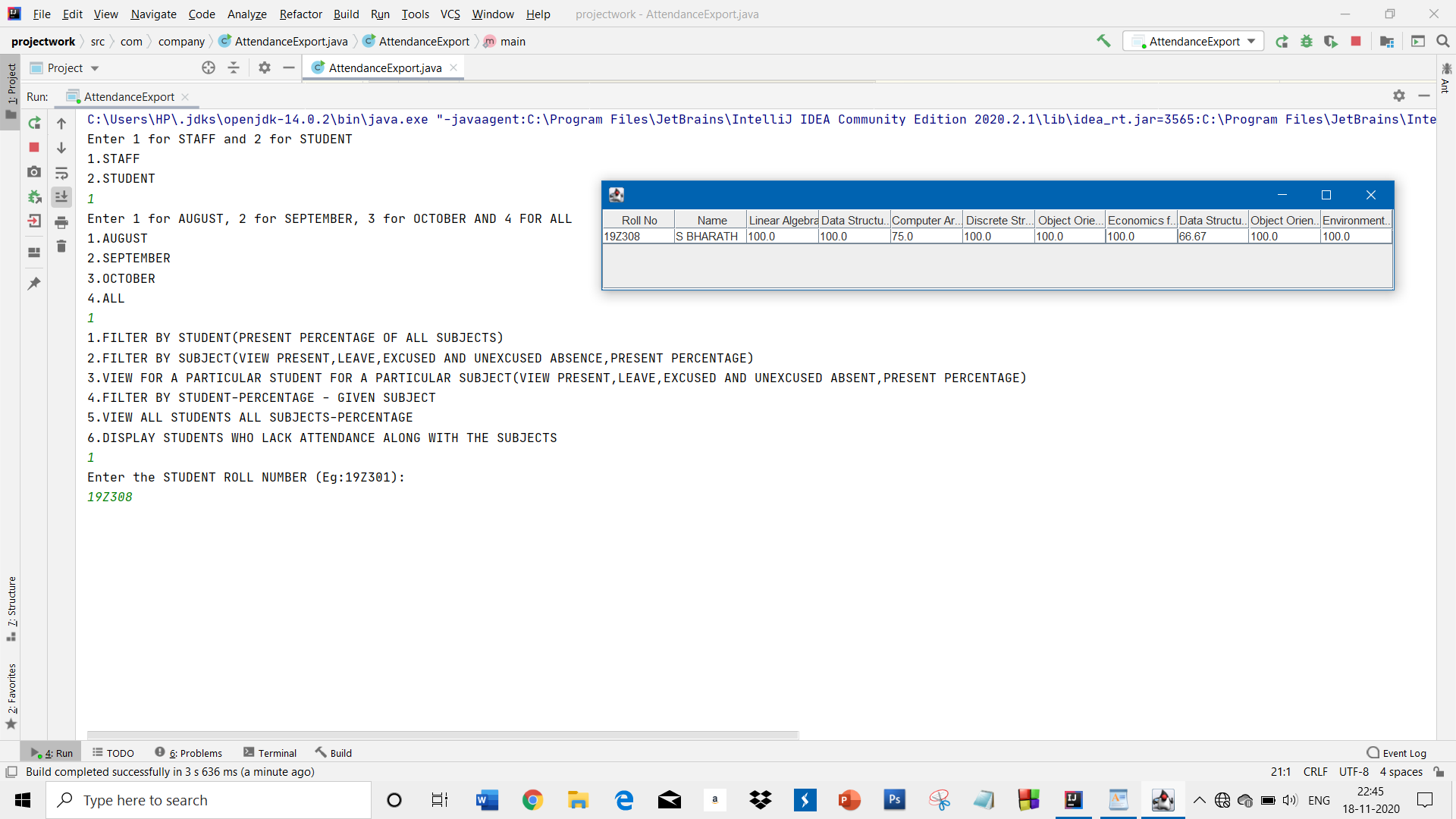
**CONTRIBUTION OF TEAM MEMBERS:**

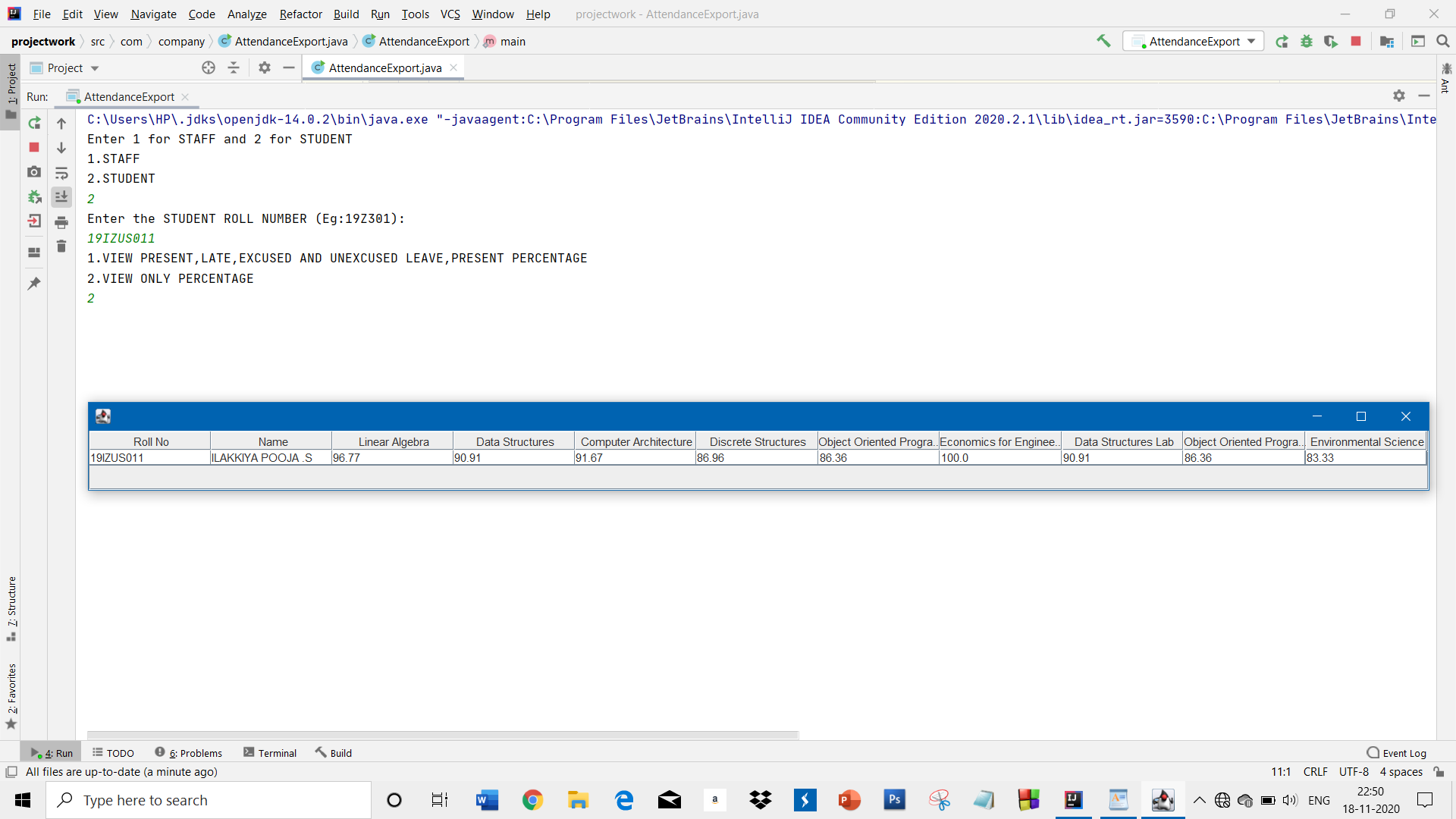
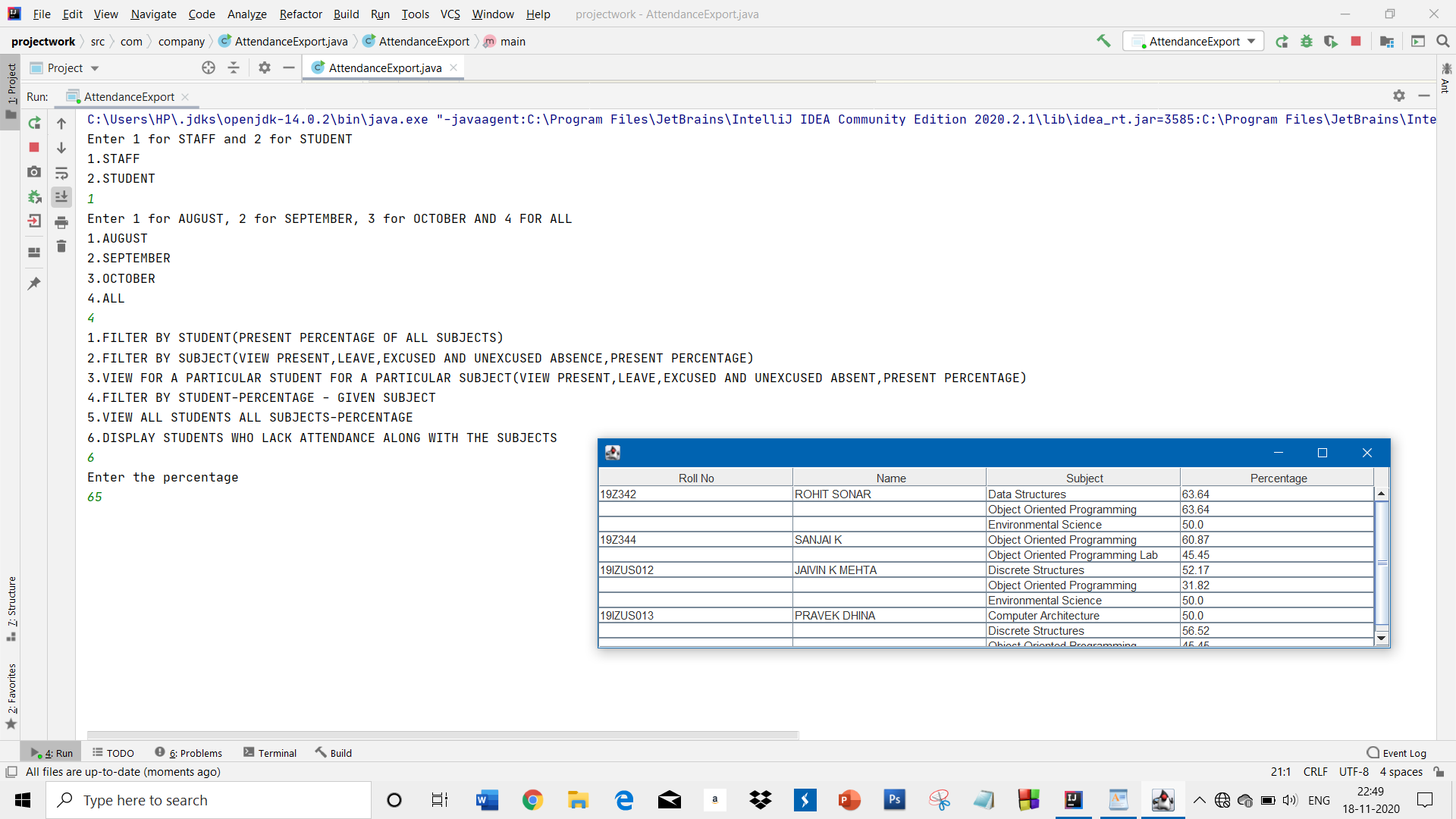
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| --- | --- |
| Harini.S | Involved in the overall design and development of the project which also includes handling the input files and void viewreportstaff1 in Staff class which displays students who are below a certain percentage and the respective subjects. |
| Jayasree.B.S | Involved in the overall integration of all the functions and also worked in functions like viewreport which displays the student’s present percentage in all subjects in PSGclg class. |
| Selva keerthana.B.G | Involved in the UI design and coding of Student class which gives the overall attendance details of a student for all the subects. |
| Nivedha.K | Involved in the UI design and coding of function viewreportstaff in Staff class which adds the attendance details of student who are below a certain percentage for a particular subject. |
| Ilakiya Pooja | Involved in the UI design of function viewreportstaff in Staff class which adds the attendance details for a particular subject. |
| Pravek Dhina | Report work |

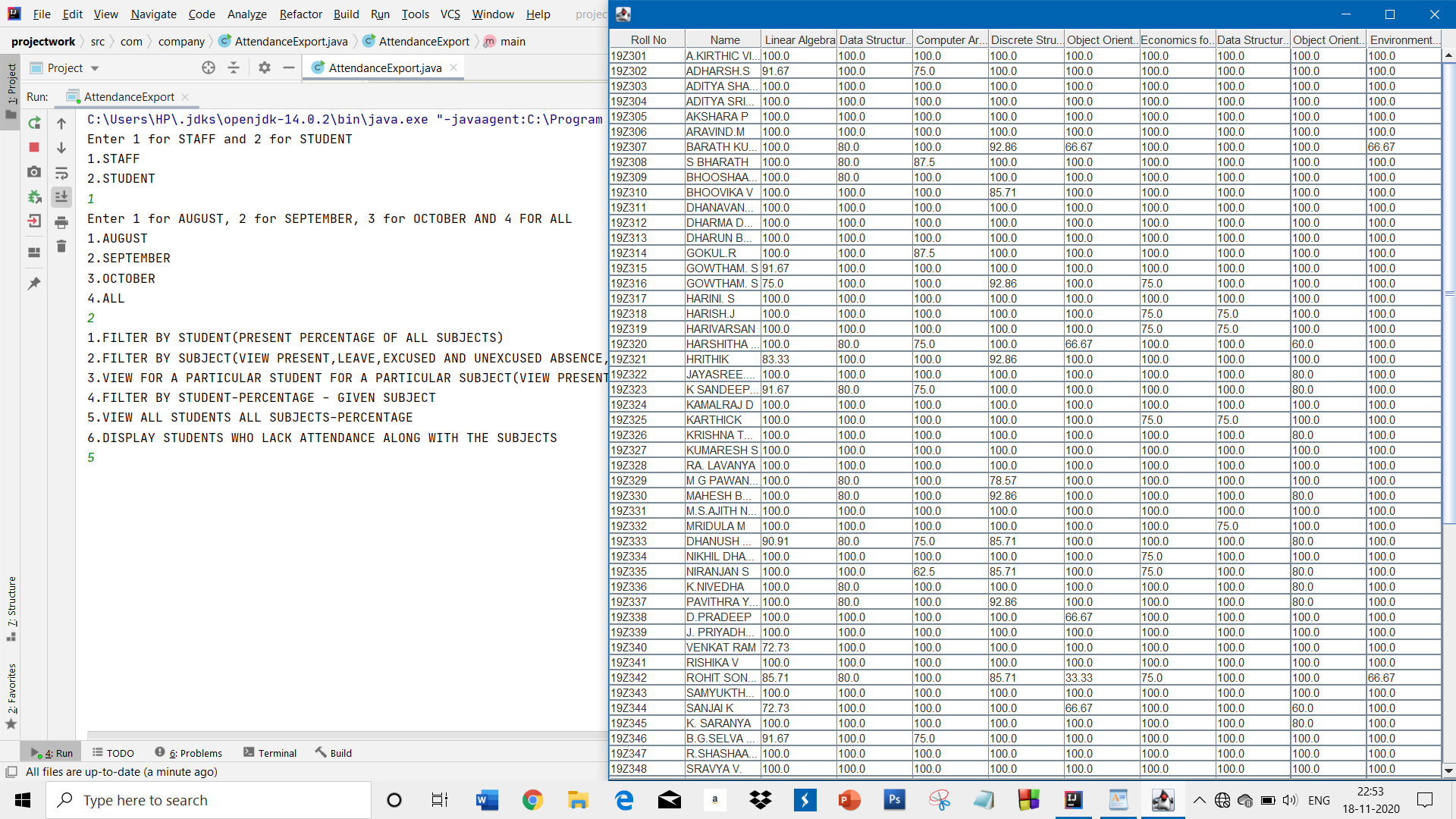
**CHALLENGES FACED:**

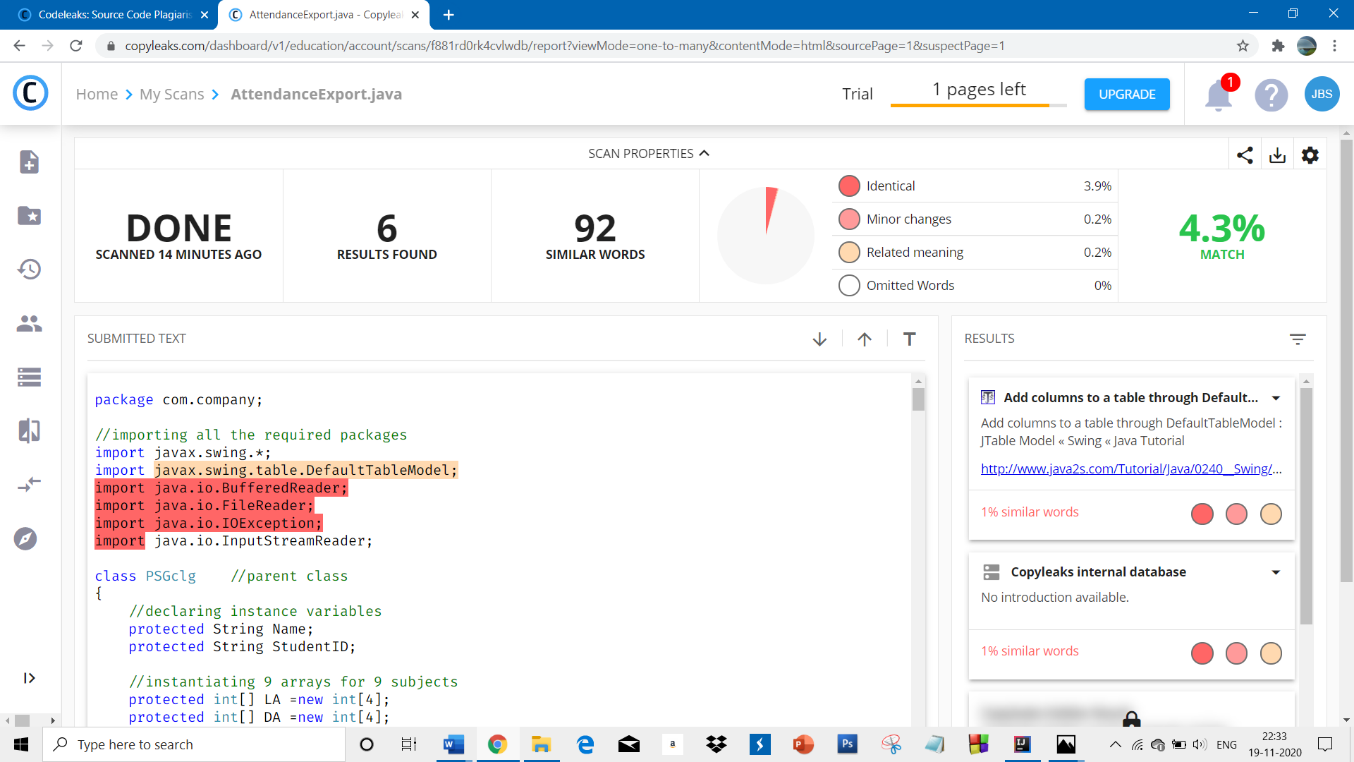
* Displaying the details in the table format.
* Reading from the csv file.

**SNAPSHOTS OF THE OUTPUT:**





**CODE:** https://github.com/Harini-19Z317/java-attendance-tracker/tree/master

**PLAGIARISM REPORT FOR THE CODE:**