Sumedh ahire
FYMCA-B 03
BATCH 1
ASSIGNEMT 10

CODE:

```java
import java.util.ArrayList;
import java.util.Scanner;

class Student {
    protected String name;
    protected int rollNumber;
    protected String subject;

    public Student(String name, int rollNumber, String subject) {
        this.name = name;
        this.rollNumber = rollNumber;
        this.subject = subject;
    }

    public String getName() {
        return name;
    }

    public int getRollNumber() {
        return rollNumber;
    }

    public String getSubject() {
        return subject;
    }

    @Override
    public String toString() {
        return "Student{" +
                "name='" + name + '\'' +
                ", rollNumber=" + rollNumber +
                ", subject='" + subject + '\'' +
                '}';
    }
}

class ExamDetails extends Student {
    private String subjectCode;
    private double internalAssessment;
    private double universityExamMarks;

    public ExamDetails(String name, int rollNumber, String subject, String subjectCode,
                       double internalAssessment, double universityExamMarks) {
        super(name, rollNumber, subject);
        this.subjectCode = subjectCode;
        this.internalAssessment = internalAssessment;
        this.universityExamMarks = universityExamMarks;
    }

    public String getSubjectCode() {
        return subjectCode;
    }

    public double getInternalAssessment() {
        return internalAssessment;
    }

    public double getUniversityExamMarks() {
        return universityExamMarks;
    }
```

```java
    @Override
    public String toString() {
        return "ExamDetails{" +
                "name='" + name + '\'' +
                ", rollNumber=" + rollNumber +
                ", subject='" + subject + '\'' +
                ", subjectCode='" + subjectCode + '\'' +
                ", internalAssessment=" + internalAssessment +
                ", universityExamMarks=" + universityExamMarks +
                '}';
    }
}

public class StudentManagement {

    private static ArrayList<ExamDetails> studentList = new ArrayList<>();
    private static Scanner scanner = new Scanner(System.in);

    public static void buildMasterTable() {
        // Sample data for demonstration
        studentList.add(new ExamDetails("John Doe", 1, "Mathematics", "MATH101", 85,
78));
        studentList.add(new ExamDetails("Jane Smith", 2, "Physics", "PHY102", 72, 82));
    }

    public static void listTable() {
        if (studentList.isEmpty()) {
            System.out.println("No records found!");
            return;
        }

        System.out.println("-------------------------------------------------");
        System.out.printf("%-20s %-15s %-15s %-15s %-20s %-20s\n", "Name", "Roll
Number", "Subject",
                "Subject Code", "Internal Assessment", "University Exam Marks");
        System.out.println("-------------------------------------------------");
        for (ExamDetails student : studentList) {
            System.out.println(student);
        }
        System.out.println("-------------------------------------------------");
    }

    public static void insertNewEntry() {
        System.out.println("Enter student details:");
        System.out.print("Name: ");
        String name = scanner.nextLine();
        System.out.print("Roll Number: ");
        int rollNumber = scanner.nextInt();
        scanner.nextLine(); // Consume newline character
        System.out.print("Subject: ");
        String subject = scanner.nextLine();
        System.out.print("Subject Code: ");
        String subjectCode = scanner.nextLine();
        System.out.print("Internal Assessment Marks: ");
        double internalAssessment = scanner.nextDouble();
        scanner.nextLine(); // Consume newline character
        System.out.print("University Exam Marks: ");
        double universityExamMarks = scanner.nextDouble();
        scanner.nextLine(); // Consume newline character

        studentList.add(new ExamDetails(name, rollNumber, subject, subjectCode,
internalAssessment, universityExamMarks));
        System.out.println("Record inserted successfully!");
    }

    public static void deleteOldEntry() {
```

```
      System.out.print("Enter roll number of the student to delete: ");
```

OUTPUT:

```
$ java StudentManagement
insertNewEntry
Enter student details:
Name: Alice Jones
Roll Number: 3
Subject: Chemistry
Subject Code: CHEM103
Internal Assessment Marks: 90
University Exam Marks: 85
Record inserted successfully!
```