

```
// Method to get grades from the user
public void getGrades() {
    Scanner scanner = new Scanner(System.in);
    for (int num1 = 0; num1 < number; num1++) {
        //ask the user for their grades
        //make the the variable equal to 0 to start store proper
        System.out.println("Enter grades for Student " + (num1 + 1) + ":");
        for (int num = 0; num < NUMBER; num++) {
            System.out.print("Test " + (num + 1) + ": ");
            GRADES1[num1][num] = scanner.nextInt();
        }
    }
}
```

- Method to get grades from the user
- Get user grades
- make the variable equal to 0 to properly store user grades

```
// Display all grades
public void showGrades() {
    System.out.println("\nGrades for all students:");
    for (int num1 = 0; num1 < number; num1++) {
        System.out.print("Student " + (num1 + 1) + ": ");
        for (int num = 0; num < NUMBER; num++) {
            System.out.print(GRADES1[num1][num] + " ");
        }
        System.out.println();
    }
}
```

- The showGrades() method prints the grades of all students, (repeat each student and each grade, displaying the student's number followed by their respective grades)

```
// get the student or test avg
private double calculateAvg(int index, boolean isStudent) {
    int total = 0;
    if (isStudent) {
        for (int num = 0; num < NUMBER; num++) {
            total += GRADES1[index][num];
        }
        return (double) total / NUMBER;
    } else {
        for (int num1 = 0; num1 < number; num1++) {
            total += GRADES1[num1][index];
        }
        return (double) total / number;
    }
}
```

- CalculateAVG does the math to give the student avg and return it as an overall grade or the specific students only when(isStudent) false.

```
// method to get student average
public double student1(int studentNumber) {
    return calculateAvg(studentNumber - 1, true);
}

// method to get test average
public double test1(int testNumber) {
    return calculateAvg(testNumber - 1, false);
}
```

- method to get student average
- method to get test average

```
public class CourseGrades1 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        COURSE GB = new COURSE();
    }
}
```

- Created a new scanner class
- Took the method course from the the other code to get it's output as a variable called GB

```
// store grades and show them
GB.getGrades();
GB.showGrades();
```

- From the variable called GB it value gets stored in the two methods

```
// show student average
System.out.print("\nEnter student number (1-12) to see their average: ");
int studentNumber = scanner.nextInt();
System.out.println("Average grade for Student " + studentNumber + ": " + GB.student1(studentNumber));
```

- Lines that the user will see their avg student grade.

```
// show test average
System.out.print("\nEnter test number (1-5) to see the average grade: ");
int testNumber = scanner.nextInt();
System.out.println("Average grade for Test " + testNumber + ": " + GB.test1(testNumber));
```

- Lines that the user will see their avg test Grade