**SWE 510 – Data Structures and Algorithms**

**Assignment 2 Report – Student Grades**

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**Algorithm Explanation**

Firstly I created array for student Names. After that I created array for student grades and this array generates random numbers for each student.

For calculation of average, I created int total and for loop for calculation for average.

**Program Outputs**

First output’s average is 54 and program shows each student who is below the average.

Second outputs’s average is 78 and also this program works correctly

Sample Program Output

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| **First Output:**  1.Ertan:52  2.Ahmet:89  3.Ayse:33  4.Fatma:25  5.Ali:94  6.Mehmet:33  The average is: 54  Ertan below the average. Ertan's Grade is: 52  Ayse below the average. Ayse's Grade is: 33  Fatma below the average. Fatma's Grade is: 25  Mehmet below the average. Mehmet's Grade is: 33  **Second Output:**  1.Ertan:68  2.Ahmet:88  3.Ayse:56  4.Fatma:93  5.Ali:84  6.Mehmet:83  The average is: 78  Ertan below the average. Ertan's Grade is: 68  Ayse below the average. Ayse's Grade is: 56 |