

Lab3

-Try all what we have learned in the lecture

Part1:

- **A program to store students grades in OOP course using One-dim array.**

-Take number of student , student grades from user

-print grades

-calculate average for all students grades

- **Write a program that generates a multiplication table using a two-dim array.**

-Declare and initialize a 10x10 array.

-Fill the array such that the element at $[i, j]$ is equal to $(i+1) * (j+1)$.

-Print the multiplication table.

- **Write a program that store student age for many tracks using a two-dim array.**

-take number of student and tracks from user

-enter student ages

- print the array

-calculate age avg for each track

Bonus :

-handle a scenario where the number of students is not the same for each track
using jagged array

Part2:

- **Define a struct named Rectangle with two properties: Width and Height.**

-Implement All the Necessary Getters&Setters Functions on the Structure

-Add methods Area and Perimeter to calculate the area and perimeter of the rectangle.

- **Define a struct named TimeSpan with three properties: Hours, Minutes, and Seconds.**

- Implement All the Necessary Getters&Setters Functions on the Structure

-Add a method TotalSeconds that calculates the total number of seconds represented by the time span.

-Add a method Getstring to display the time span in HH:MM:SS format.

-Create an array of time ,take array size & data from user and print it