|  |  |
| --- | --- |
| A screen shot of a social media post  Description automatically generated | A screen shot of a computer  Description automatically generated |
| *Dynamic Input Entry (Overwrites Line)* | *Input Validation* |
|  |  |
| A screen shot of a computer  Description automatically generated | A screen shot of a computer  Description automatically generated |
| *Case: No students have a 100%* | *Case: students #3 & #4 earn 100%* |

using System;

namespace ECE2310\_HW07\_01

{

class Program

{

static void Main(string[] args)

{

int[] myArr = new int[5];

Console.WriteLine("------------------------------");

Console.WriteLine("| Grading System |");

Console.WriteLine("------------------------------");

Console.WriteLine("[+] Please enter grades...");

for (int i = 1; i <= myArr.Length; i++)

{

Console.Write($"Student #{i}: ");

myArr[i - 1] = inputValidation();

Console.SetCursorPosition(0, Console.CursorTop - 1);

Console.Write(new string(' ', Console.WindowWidth));

Console.SetCursorPosition(0, Console.CursorTop - 1);

}

Console.WriteLine("[+] Done entering grades...");

Console.WriteLine("------------------------------");

bool earned100 = false;

for (int i = 0; i < myArr.Length; i++)

{

if (search(myArr, 100) == i)

{

earned100 = true;

Console.WriteLine($"Student #{i + 1} earned 100%");

myArr[i] = 0;

}

}

if (earned100 == false)

{

Console.WriteLine("No student earned 100%");

}

}

static int search(int[] array, int key)

{

return Array.IndexOf(array, key);

}

static int inputValidation()

{

int grade;

while (!Int32.TryParse(Console.ReadLine(), out grade) || grade > 100 || grade < 0)

{

Console.SetCursorPosition(0, Console.CursorTop - 1);

Console.Write(new string(' ', Console.WindowWidth));

Console.SetCursorPosition(0, Console.CursorTop - 1);

Console.Write("[-] Invalid input (0-100), try again: ");

}

return grade;

}

}

}