

MIDTERM PRACTICAL EXAMINATION

```
1  using System;
2  using System.IO;
3  using System.Collections.Generic;
4
5  namespace MIDTERM
6  {
7      0 references
8      class Program
9      {
10         static string filePath = "students.txt";
11
12         0 references
13         static void Main()
14         {
15             while (true)
16             {
17                 Console.Clear();
18                 Console.WriteLine("=== Student Record System ===");
19                 Console.WriteLine("1. Add Student");
20                 Console.WriteLine("2. View All Students");
21                 Console.WriteLine("3. Exit");
22                 Console.Write("\nEnter your choice: ");
23                 string choice = Console.ReadLine();
24
25                 switch (choice)
26                 {
27                     case "1":
28                         AddStudent();
29                         break;
30                     case "2":
31                         ViewStudents();
32                         break;
33                     case "3":
34                         Console.WriteLine("\nExiting program... Goodbye!");
35                         return;
36                     default:
37                         Console.WriteLine("\nInvalid choice. Please try again.");
38                         break;
39                 }
40
41                 Console.WriteLine("\nPress any key to return to menu...");
42                 Console.ReadKey();
43             }
44         }
45
46         // Add a new student
47         1 reference
48         static void AddStudent()
49         {
50             Console.Clear();
51             Console.WriteLine("=== Add Student ===");
52
53             Console.Write("Enter student name: ");
54             string name = Console.ReadLine();
55
56             if (string.IsNullOrWhiteSpace(name))
57             {
58                 Console.WriteLine("Error: Name cannot be empty.");
59                 return;
60             }
61
62             Console.Write("Enter student age: ");
63             string ageInput = Console.ReadLine();
64
65             if (!int.TryParse(ageInput, out int age) || age >= 30)
66             {
67                 Console.WriteLine("Error: Invalid age. Please enter a number LESS than 30.");
68                 return;
69             }
70
71             try
72             {
73                 using (StreamWriter writer = new StreamWriter(filePath, true))
74                 {
75                     writer.WriteLine($"{name},{age}");
76                 }
77                 Console.WriteLine("\nStudent record added successfully!");
78             }
79             catch
80             {
81                 Console.WriteLine("Error: Unable to write to file.");
82             }
83         }
84     }
85 }
```

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```
81
82      // View all students
      1 reference
83      static void ViewStudents()
84      {
85          Console.Clear();
86          Console.WriteLine("=== All Student Records ===\n");
87
88          if (!File.Exists(filePath))
89          {
90              Console.WriteLine("No student records found.");
91              return;
92          }
93
94          List<string> students = new List<string>(File.ReadAllLines(filePath));
95
96          if (students.Count == 0)
97          {
98              Console.WriteLine("No student records found.");
99              return;
100          }
101
102          int count = 0;
103          foreach (string line in students)
104          {
105              count++;
106              string[] parts = line.Split(',');
107
108              if (parts.Length == 2)
109              {
110                  Console.WriteLine($"{count}. Name: {parts[0]}, Age: {parts[1]}");
111              }
112          }
113      }
114  }
115
116
```

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OUTPUT

```
C:\Users\anghela aliza\source  X  +  v
=== Student Record System ===
1. Add Student
2. View All Students
3. Exit

Enter your choice: 1|
```

```
=== Add Student ===
Enter student name: JEAN LUC PICARD
Enter student age: 20

Student record added successfully!

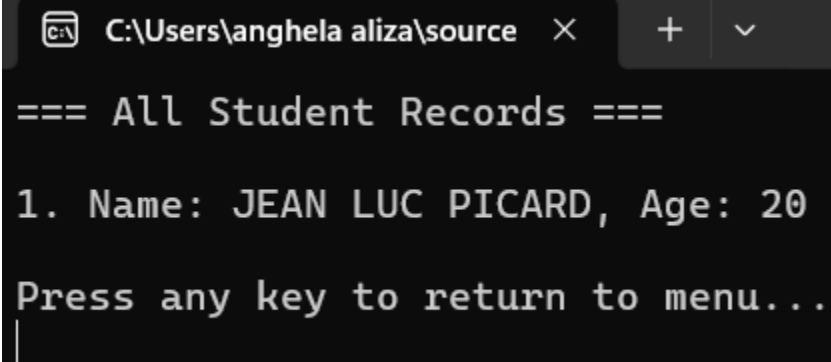
Press any key to return to menu...
|
```

//IT WILL NOT ACCEPT AGE 30 AND UP

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```
=== Add Student ===  
Enter student name: RIKER JHONATAN  
Enter student age: 31  
Error: Invalid age. Please enter a number LESS than 30.  
  
Press any key to return to menu...  
|
```

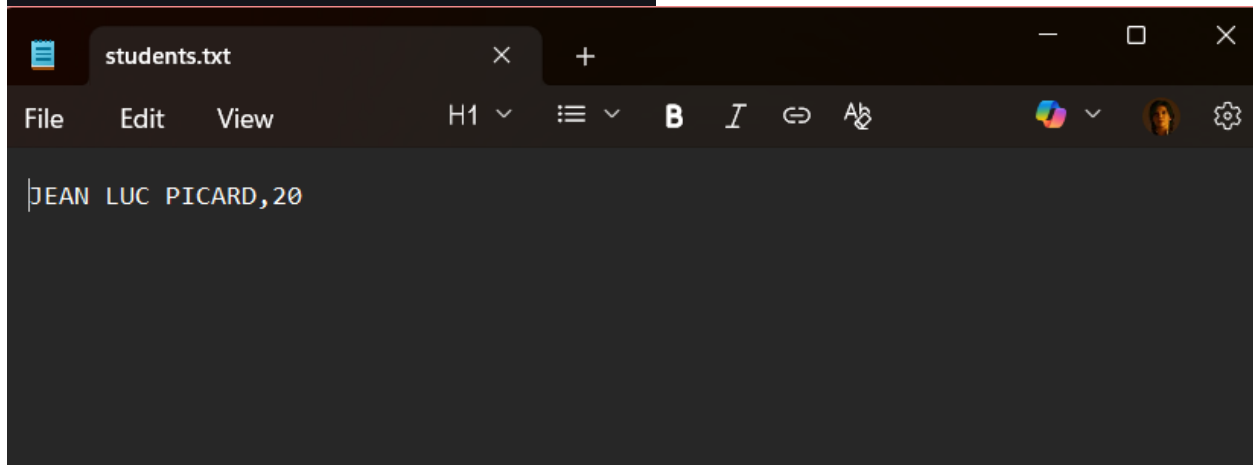
```
=== Student Record System ===  
1. Add Student  
2. View All Students  
3. Exit  
  
Enter your choice: 2|
```



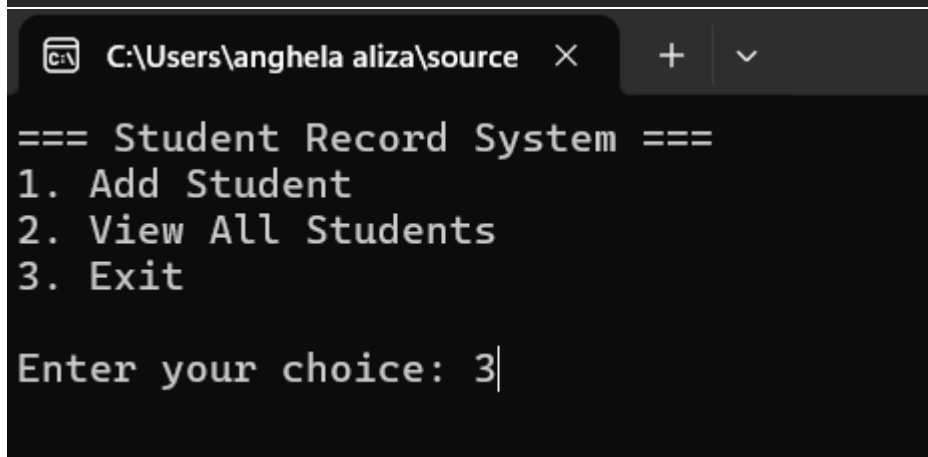
The image shows a Windows File Explorer window with the address bar displaying "C:\Users\anghela aliza\source". Below the address bar, there is a terminal window with the following text:

```
=== All Student Records ===  
  
1. Name: JEAN LUC PICARD, Age: 20  
  
Press any key to return to menu...  
|
```

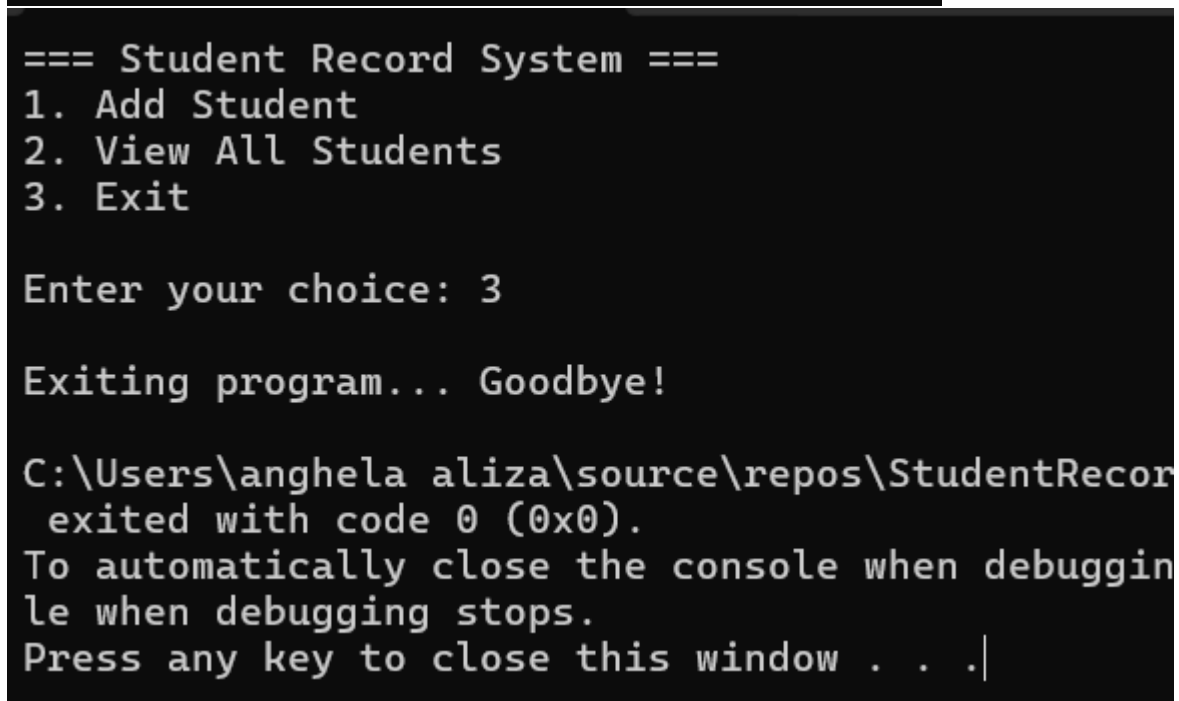
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A screenshot of a text editor window titled 'students.txt'. The window has a dark theme and a menu bar with 'File', 'Edit', and 'View'. The toolbar includes icons for font size (H1), bold (B), italic (I), link, and undo. The main text area contains the string 'JEAN LUC PICARD,20'.



A screenshot of a console window titled 'C:\Users\anghela aliza\source'. It displays a menu titled '=== Student Record System ===' with three options: '1. Add Student', '2. View All Students', and '3. Exit'. Below the menu, it prompts 'Enter your choice: 3|'.



A screenshot of a console window showing the 'Student Record System' menu and the user entering choice 3. The output shows the program exiting with a goodbye message and a message from the debugger: 'C:\Users\anghela aliza\source\repos\StudentRecord exited with code 0 (0x0). To automatically close the console when debugging le when debugging stops. Press any key to close this window . . .|'.