

## Main:

In the main, I will ask the user to choose the process he wants to either add a new teacher, retrieve the data of all teachers or one teacher, or update the teacher data.

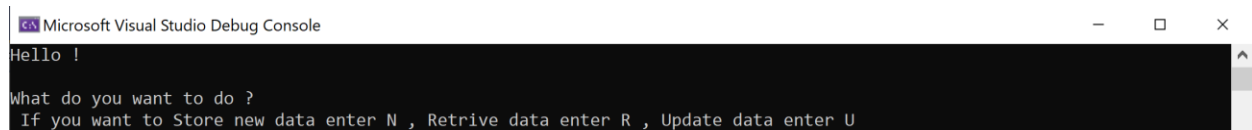
Code:

```
class Program
{
    0 references
    static void Main(string[] args)
    {
        char order;
        Console.WriteLine("Hello ! ");
        Console.WriteLine();

        Console.WriteLine("What do you want to do ? \n If you want to Store new data enter N , Retrive data enter R , Update data enter U ");
        order = Convert.ToChar(Console.ReadLine());

        Console.WriteLine();
        switch (order)
        {
            case 'N':
                StoreNewData();
                break;
            case 'R':
                RetriveData();
                break;
            case 'U':
                UpdateData();
                break;
        }
    }
}
```

Output:



Microsoft Visual Studio Debug Console

Hello !

What do you want to do ?  
If you want to Store new data enter N , Retrive data enter R , Update data enter U

If user choose **Store new data**:

```
31 static void StoreNewData()
32 {
33     string FileName = "TeacherData.txt";
34     string FilePath = @"C:\Demo\TeacherData.txt";
35
36     // create-write in File
37
38     using (StreamWriter writer = File.CreateText(FileName))
39     {
40         writer.WriteLine("ID , Name , Class , Section ");
41     }
42
43     Console.WriteLine();
44     int id;
45     string name, clas, section, newAppend;
46     //Append file content
47     Console.WriteLine("Enter new Teacher Data (ID , Name , Class , Section) : ");
48     Console.Write(" ID : ");
49     id = Convert.ToInt32(Console.ReadLine());
50     Console.Write(" Name : ");
51     name = Convert.ToString(Console.ReadLine());
52     Console.Write(" Class : ");
53     clas = Convert.ToString(Console.ReadLine());
54     Console.Write(" Section : ");
55     section = Convert.ToString(Console.ReadLine());
56     Console.WriteLine();
57
58     newAppend = ("\n" + id + " , " + name + " , " + clas + " , " + section);
59     File.AppendAllText(FilePath, newAppend);
60
61     Console.WriteLine();
62     //Display
63     string txtcontent2 = File.ReadAllText(FilePath);
64     Console.WriteLine(txtcontent2);
65     Console.WriteLine();
66     Console.WriteLine("Store new Data Successfully ! ");
67 }
68
```

Output:



```
Microsoft Visual Studio Debug Console
Hello !

What do you want to do ?
If you want to Store new data enter N , Retrive data enter R , Update data enter U
N

Enter new Teacher Data (ID , Name , Class , Section) :
ID : 3
Name : Saad
Class : CS
Section : Fifth

1 , Shahad , IT , Third
2 , Razan , CS , First
3 , Saad , CS , Fifth

Store new Data Successfully !

C:\Users\96655\source\repos\FileDemo\FileDemo\bin\Debug\net5.0\FileDemo.exe (process 16880) exited with code 0.
Press any key to close this window . . .
```

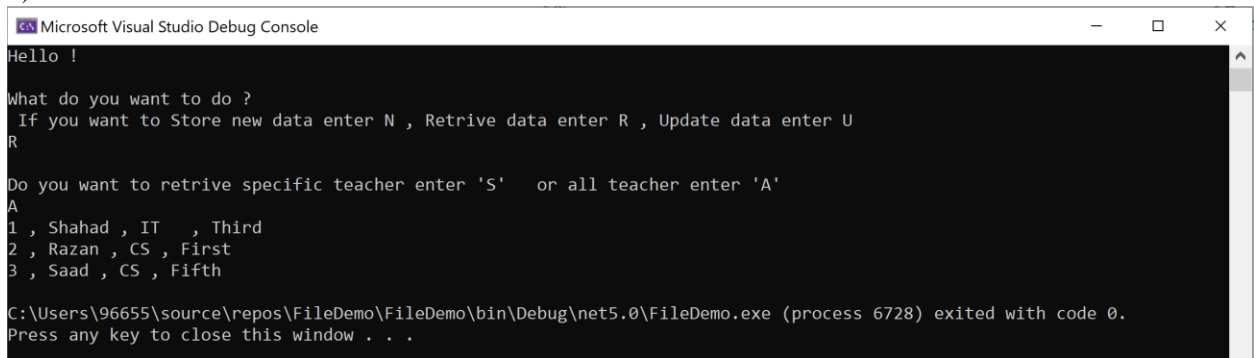
If user choose **Retrieve data**:

Code:

```
68 static void RetriveData()
69 {
70     string FilePath = @"C:\Demo\TeacherData.txt";
71     Console.WriteLine("Do you want to retrive specific teacher enter 'S' or all teacher enter 'A' ");
72     char r = Convert.ToChar(Console.ReadLine());
73     if (r == 'S')
74     {
75         Console.WriteLine("Please enter the ID that you want to Retive his/her data ");
76         string keyword = Console.ReadLine() ?? FilePath;
77         Console.WriteLine();
78         using (StreamReader sr = new StreamReader(FilePath))
79         {
80             while (!sr.EndOfStream)
81             {
82                 string line = sr.ReadLine();
83                 if (line.IndexOf(keyword, StringComparison.CurrentCultureIgnoreCase) >= 0)
84                 {
85                     Console.WriteLine(line);
86                 }
87             }
88             Console.WriteLine();
89             Console.WriteLine("Retriving Data Successfully");
90         }
91     }
92     else
93     {
94         string txtcontent = File.ReadAllText(FilePath);
95         Console.WriteLine(txtcontent);
96     }
97 }
98
99
100
```

Output:

### 1) Retrieve all



Microsoft Visual Studio Debug Console

Hello !

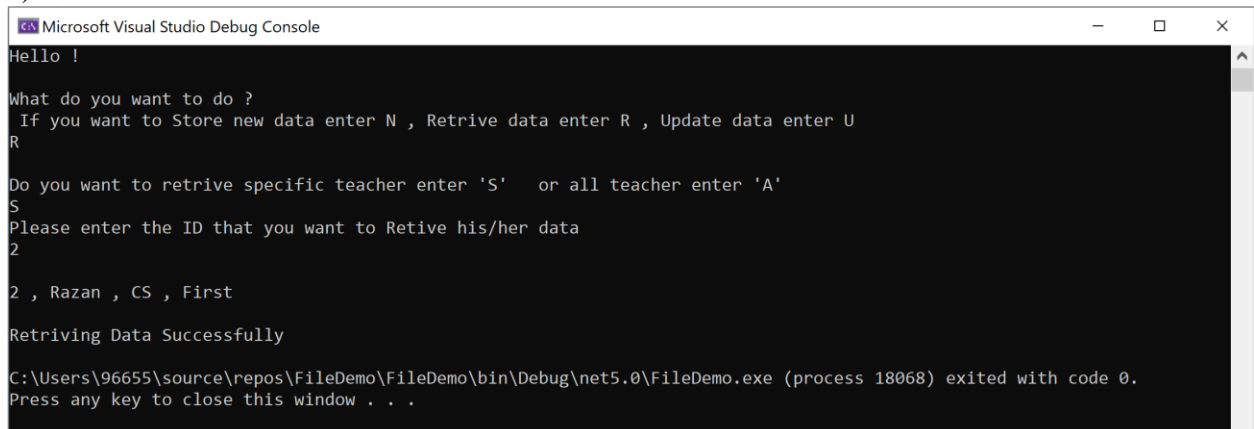
What do you want to do ?  
If you want to Store new data enter N , Retrive data enter R , Update data enter U  
R

Do you want to retrive specific teacher enter 'S' or all teacher enter 'A'  
A

1 , Shahad , IT , Third  
2 , Razan , CS , First  
3 , Saad , CS , Fifth

C:\Users\96655\source\repos\FileDemo\FileDemo\bin\Debug\net5.0\FileDemo.exe (process 6728) exited with code 0.  
Press any key to close this window . . .

### 2) Retrieve one.



Microsoft Visual Studio Debug Console

Hello !

What do you want to do ?  
If you want to Store new data enter N , Retrive data enter R , Update data enter U  
R

Do you want to retrive specific teacher enter 'S' or all teacher enter 'A'  
S

Please enter the ID that you want to Retive his/her data  
2

2 , Razan , CS , First

Retriving Data Successfully

C:\Users\96655\source\repos\FileDemo\FileDemo\bin\Debug\net5.0\FileDemo.exe (process 18068) exited with code 0.  
Press any key to close this window . . .

If user choose **Update data:**

Code:

```
101 static void UpdateData()
102 {
103     string FilePath = @"C:\Demo\TeacherData.txt";
104
105     Console.WriteLine("Enter the ID that you want to Update his/her data");
106
107     string updyId = Console.ReadLine() ?? FilePath;
108     Console.WriteLine();
109     using (StreamReader sr = new StreamReader(FilePath))
110     {
111         while (!sr.EndOfStream)
112         {
113             string line = sr.ReadLine();
114
115             if (line.IndexOf(updyId, StringComparison.CurrentCultureIgnoreCase) >= 0)
116             {
117                 Console.WriteLine(line);
118             }
119         }
120     }
121     Console.WriteLine();
122     Console.WriteLine("Retriving data Successfully");
123     Console.WriteLine();
124
125     Console.WriteLine("What do you want to update ? \n Name ? enter N , Class ? enter C , Section ? enter S ");
126     char change = Convert.ToChar(Console.ReadLine());
127
128     string print;
129     string retname, oldname;
130     switch (change)
131     {
132         case 'N':
133             Console.WriteLine("Enter the Old Name :");
134             oldname = Convert.ToString(Console.ReadLine());
135
136             Console.WriteLine("Enter the New Name :");
137             retname = Convert.ToString(Console.ReadLine());
138             using (StreamReader sr = new StreamReader(FilePath))
139             {
140
141                 string line2 = sr.ReadLine();
142                 if (line2.Contains(oldname))
143                 {
144                     print = line2.Replace(oldname, retname);
145
146                     Console.WriteLine("After Update : " + print);
147                     Console.WriteLine();
148                     Console.WriteLine("Updated Data Successfully! ");
149                     sr.Close();
150                     File.WriteAllText(FilePath, print);
151                 }
152             }
153
154             break;
155         case 'C':
156             Console.WriteLine("Enter the Old Class :");
157             oldname = Convert.ToString(Console.ReadLine());
158
159             Console.WriteLine("Enter the New Class :");
160             retname = Convert.ToString(Console.ReadLine());
161             using (StreamReader sr = new StreamReader(FilePath))
162             {
163
164                 string line2 = sr.ReadLine();
165                 if (line2.Contains(oldname))
166                 {
167                     print = line2.Replace(oldname, retname);
168
169                     Console.WriteLine("After Update : " + print);
170                     Console.WriteLine();
171                     Console.WriteLine("Updated Data Successfully! ");
172                     sr.Close();
173                     File.WriteAllText(FilePath, print);
174                 }
175             }
176
177             break;
178         case 'S':
179             Console.WriteLine("Enter the Old Section :");
180             oldname = Convert.ToString(Console.ReadLine());
181
182             Console.WriteLine("Enter the New Section :");
183             retname = Convert.ToString(Console.ReadLine());
184
185             using (StreamReader sr = new StreamReader(FilePath))
186             {
187
188                 string line2 = sr.ReadLine();
189                 if (line2.Contains(oldname))
190                 {
191                     print = line2.Replace(oldname, retname);
192
193                     Console.WriteLine("After Update : " + print);
194                     Console.WriteLine();
195                     Console.WriteLine("Updated Data Successfully! ");
196                     sr.Close();
197                     File.WriteAllText(FilePath, print);
198                 }
199             }
200
201             break;
202     }
203
204 }
```

Output:

```
Microsoft Visual Studio Debug Console
Hello !

What do you want to do ?
If you want to Store new data enter N , Retrive data enter R , Update data enter U
U

Enter the ID that you want to Update his/her data
3

3 , Saad, CS , Fifth

Retriving data Successfully

What do you want to update ?
Name ? enter N , Class ? enter C , Section ? enter S
N
Enter the Old Name :
Saad
Enter the New Name :
Aziz
After Update : 3 , Aziz, CS , Fifth

Updated Data Successfully!

C:\Users\96655\source\repos\FileDemo\FileDemo\bin\Debug\net5.0\FileDemo.exe (process 18176) exited with code 0.
Press any key to close this window . . .
```