**CATHOLIC REGIONAL COLLEGE SYDENHAM 2020**

**Software Development – UNIT 3**

**Working Modules – Outcome 301**

**SAC 2021 - Part 2 of 3**

**Name: Noel Tesaluna Date Due:**

Marking Rubric

|  |  |  |  |
| --- | --- | --- | --- |
| **Item #** | **Item Description** | **Marks Available**  (50 marks) | **Marks Awarded** |
| **1** | Create a Windows Forms App that loads the exam file into a list of string arrays. | 5 |  |
| **2** | Implement First and Next navigation buttons and a ShowFields routine | 4 |  |
| **3** | Pass or Fail calculated field | 4 |  |
| **4** | Validation button | 3 |  |
| **5** | Search name function | 9 |  |
| **6** | Test cases | 10 |  |
| **7** |  | 10 |  |
| **8** | Internal Documentation | 5 |  |

**Exam File**

**Student,Subject,Score**

John,Maths,70

Tracy,Maths,65

Henry,Maths,45

William,Maths,70

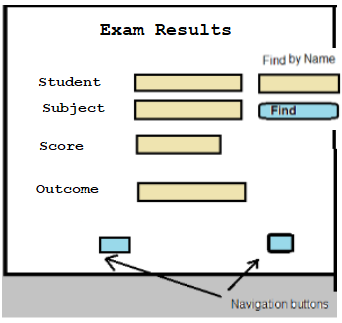
Barbara,Maths,65

Sally,Maths,49

Peter,Maths,50

**Note** Item 8 requires that you use descriptive and consistent variable naming conventions, procedure headings and appropriate inline comments. 5 marks will be awarded for good internal documentation practices

**Q5 Search Function**

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5.1) Create a search function for locating a student by exact match on name (9 marks)

*Pseudo Code:*

**Start LinearSearch()**

**For i = 0 to RowList.RowCount - 1**

**row = RowList[i].Split(comma)**

**studentName = row[NameColumnNumber]**

**If target = studentName Then**

**Return i**

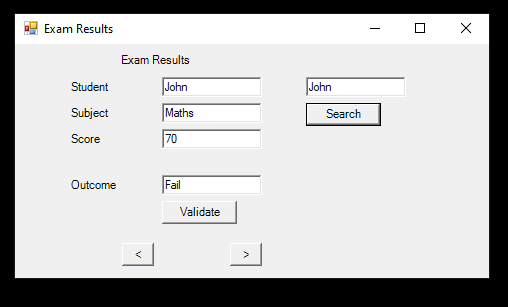
**End If**

**Next i**

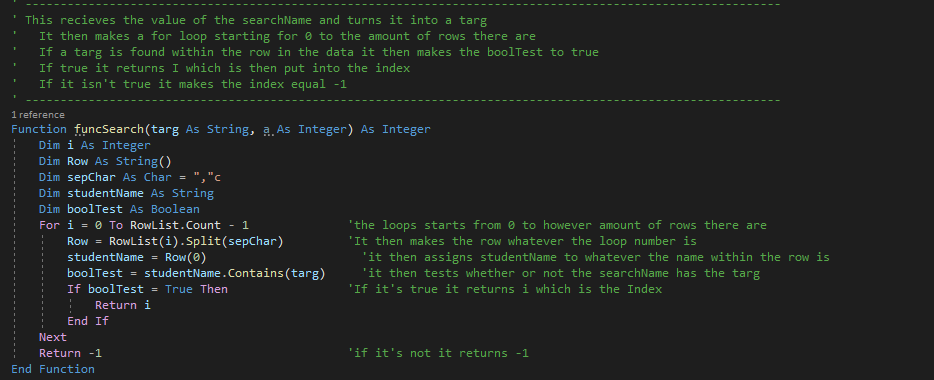
**Return -1**

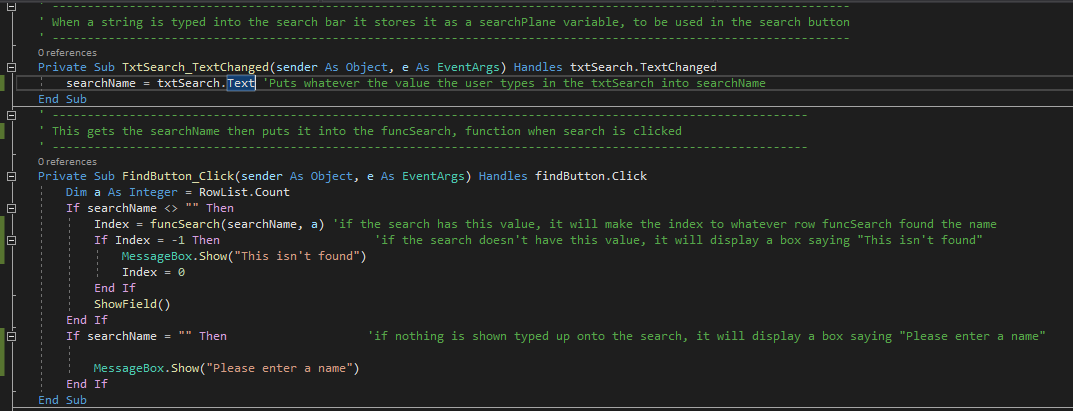
**End**

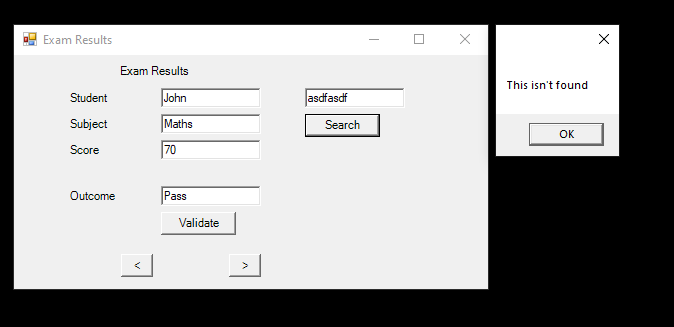
### Copy a screenshot of your modified form (1 mark)



### Copy the code of the Search function (4 marks) and the call of the Search function in the button click event handler (2 marks) here.



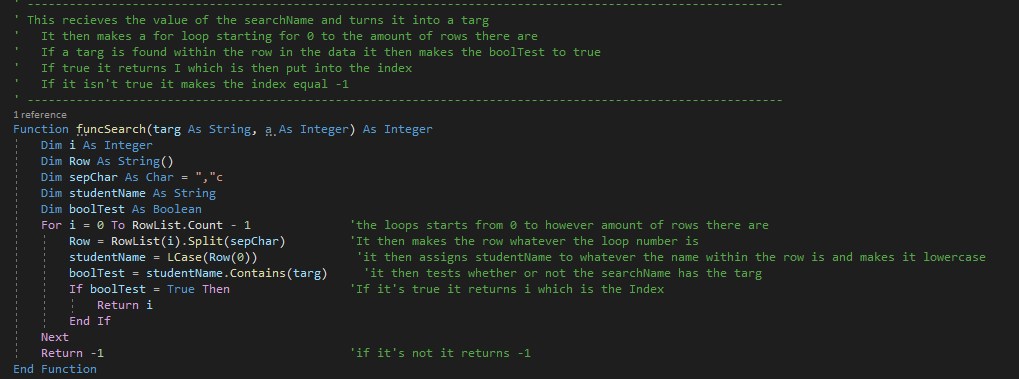
****

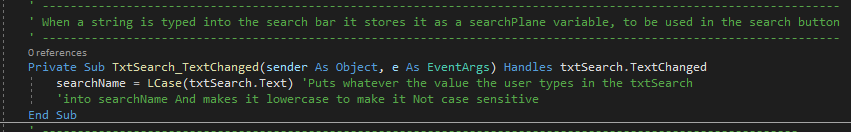


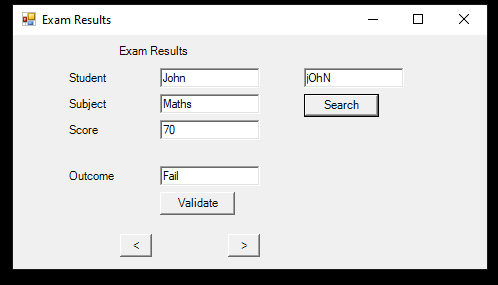
5.2) Modify your search function so that it is not case sensitive. For example searching for ‘john’ will find ‘John’ (2)

Hint: Use the ToUpper or ToLower methods of the String class.

Copy your modified function here

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