**String Manipulation and Arrays Programming Assignment Instructions**

**Overview**

**Luke 6:38  
Give, and it will be given to you. Good measure, pressed down, shaken together, running over, will be put inot your lap. For with the measure you use it will be measured back to you.”**

**This week we are going to take the programs we created in three and utilize arrays. You are going to create a program to store the hours for each mission. The application is going to create an array to store 4 different areas of missions. The user is going to enter a name, the number of hours, select a mission, and the information will be displayed and the the totals for the number of hours will be displayed. The totals for the number of hours will be a running total.**

**Instructions**

1. **Form Setup**
   1. **You must save your project using your initials in the name\*\* This is required and the project will not be accepted otherwise.**
   2. **Design your screen to look like the one below.**
   3. **Update the backcolor to the color of your choice.**
   4. **Use appropriate naming conventions for controls and variables.** 
      1. **Txt for textbox**
      2. **Lbl for label**
      3. **Frm for form**
      4. **Lst for listbox**
   5. **Tab Control must flow in order from number of hours, lstmissions, Hours, Close.**
   6. **All buttons have access keys**
   7. **Lock the controls on your form.**
   8. **The list box to display the donations must be cleared before written to.**
   9. **The amounts will be stored in labels with borders.**
2. Code
   1. Create a comment section at the beginning of the code with the name of the assignment, purpose of the assignment, and your name. Comments must be throughout each sub of the application.
   2. Remove any subs that are not utilized by the program
   3. A string array will be created to hold the 5 types of mission entry points.
3. Form Load
   1. Clear the donation listbox
   2. Load the mission list array into the listbox
   3. Display the current Date for the donations
   4. Display your name
4. **Add Donation Button**
   1. The **information that was entered should be checked to make sure there are values entered. If the user entry contains null values, the user should be so advised, and the user should be directed to the text box that contains the error. Make sure your error messages are meaningful.**
   2. A static one-dimensional array to hold 4 values is created to hold the number of hours.
   3. Add the number of hours value into the array in the appropriate place holder based on the selected index
   4. Display all hour totals in the corresponding labels
   5. Utilize an input box to get the name from the user.
   6. Call a function to return back just the last name
   7. Display the name and the amount donated in the listbox which displays a running total of the amounts entered.
   8. After the display, clear the selected index of the donation listbox, and amount text box.
   9. **Make sure all spacing is accurate**
5. **Proper Order Function**
   1. **Receives the name**
   2. **Uses the substring method to parse out the last name**
   3. **Returns the last name**
6. Close Button
   1. The application quits when the button is pressed

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