

MIS 316
SPRING 2020
PROJECT 2

Demonstrate IF and Switch Commands

1. Use the same .sln and folders you did for project 1; continue to expand your knowledge of C# and if statements.
2. Open your project (click on the .sln file on your desktop)
3. Fix any errors on the About.aspx & About.aspx.cs pages as noted in Entropy for Project 1
4. Test your results!
5. Add a new page to your project and update the top menu
 - a. In your solution explorer, right click on the name of your project (should be bolded), then
 - b. Add > Add New Item > WebForm
 - c. Name this new page Project2 (no space) and then OK
 - d. Check the box for Master Page
 - e. Add > Select site.Master
 - f. You should now have a new page in your solution explorer: Project2
 - g. Change the title tag in line 1 to be Title="Your Name – Project 2"
6. Modify the black navigation bar to direct users to this page
 - a. Open the site.master page
 - b. Look around row 53 where the menu redirects them to the About
 - c. Copy this row and modify the href portion to direct them to Project2 and change the text to be Project 2 (with space)
 - d. Save and Test, when you click Project 2 does it take you to your new page?
7. Back on your Project2 page, insert some blank rows between lines 3 and 4; as </asp:Content> needs to be the last line on the page
8. Copy from the About page, all of the tags between the <asp:content and the </asp:content tags. You will be copying all of the headings, labels/textboxes and modifying for the new page
9. Modify the heading and paragraph tags at the top of the page:
 - a. Your Name (in the h2)
 - b. Project 2 (in the h3)
 - c. Demonstrate If Statements (in the p)
 - d. Save

10. Modifying the first group of objects:

- a. Copy from the About page, all of the tags between the <asp:content and the </asp:content tags. You will be copying all of the labels/textboxes and modifying for the new page
- b. After the first <div class="form-group">, modify the objects as follows.
- c. Modify the H3 tag to state: Which entry is larger?
- d. Modify the first label to state: Enter 1st Value
- e. Modify the ID of the text box to be _1Entry1
- f. Modify the Control to Validate property of the validation control to be: _1Entry1
- g. Change the Error Message of the validation control
- h. After the required field validator and before the text box add a Compare Validator (see our Chapter 3 examples) and set 5 properties
- i. Change the button to read: Which is larger?
- j. On the aspx page, look for any onClick=..., they should be under the two buttons, and delete the instructions for the onClick=..... (you should delete the onClick as well as the code in "" after the =). There should be two onClicks on this page.
- k. Run your project and see if the first entry renders properly

11. Now we need a 2nd label and text box for this first task

- a. Copy your label, the two validation controls and the text box and place after the first text box and before the buttons (see figure that follows)
- b. Name the new text box _1Entry2 and revise all items pointing to that text box and any labels, error messages

12. When complete your project should look like:

Which Entry is Larger

Enter 1st Value

Enter 2nd Value

Which is Larger

Answer: Entry 1 is larger than Entry 2

13. Test all combinations on your error checking controls:

- a. Use numbers,
- b. Leave blank (do you get an error)
- c. Type abc (do you get an error)

14. Now for the coding

- a. You will need 3 variables
- b. 2 'grab' values
- c. And if/else that if Entry1 > Entry2, display "Entry 1 is larger than Entry 2"
- d. Else display "Entry 1 is not larger than Entry 2"

Group 2: (Now Test for Equal Values) – see figure at end for sample

15. On your aspx page, recommend you delete the 2nd group of objects you copied from the About page, basically, delete the 2nd Group of items. Delete from `<!-- build the following for each new task in the assignment (C) -->` down to and including the comment to end the C task
16. Now copy the first group of objects (from and including the `<!-- ...build the....` To the End C task). This will copy the labels, two text boxes, all the error checking and button to reuse.
17. Modify all names to be `_2Entry1`, `_2Entry2`, `_2Calculate` etc...as well as change the text properties. Change the h3 tag to read: Are they equal?
18. Again, find your `_2Calculate` button, delete the instruction for the `onClick` event
19. Insure you change all validation groups from `_1` to `_2` for this group of objects (validation controls and button)
20. Double Click on the `_2Calculate` button, and recommend you copy the code from the `_1Calculate` button to the `_2Calculate` button.
 - a. Revise the code under the `_2Calculate` button to use the new text box names.
 - b. Expand your If statement (or an else if) to test if the two values are equal, if so, your messages should be one of the following: Both are Equal, or Entry 1 is larger than Entry 2, or Entry 2 is larger than Entry 1

Group 3 (Test AND)

21. If all of group 2 tasks are correct, again copy from (Group 2), you will create a third group of objects, remember to copy from the Comments to start Group C to the comments to end Group C
22. Modify all names to be `_3Entry1`, `_3Entry2` etc....as well as any text property changes and don't forget to change the validation group where necessary.
23. Don't forget to delete the `onClick` for the 3rd calculate button
24. Write the if statement to determine if both `_3Entry1` **AND** `_3Entry2` are `> 50`, and if they are the answer should display "Both Entries are Greater than 50"; else display: At least 1 entry is not greater than 50

Group 4: (Test OR)

25. If all is correct, copy the 3rd group items to become a 4th group items.
26. Modify all names to be `_4Entry1`, `_4Entry2` etc.... as well as any text property changes and validation groups, and delete the `onClick`

27. Write the if statement to determine if `_4Entry1` **OR** `_4Entry2` are > 50 , and if they are the answer should display “At least one of the entries is greater than 50”; else display: No, both of the entries are not greater than 50.

Group 5: (Tax Rate)

28. If all is correct copy group 4 items and create a group 5 items
29. Delete the 2nd input label, text box and error checking for the 2nd text button
30. Modify all names to be `_5Entry1`, `_5Calculate....` as well as any text property changes and validation groups, delete the `OnClick`
31. Here are two constants you should declare:
- `dblTaxRateLow = .10;`
 - `dblTaxRateHigh = .25;`
32. Write an if statement to determine the tax rate based on the income entered
- If `_5Entry1` is > 100 , then the tax rate is `dblTaxRateHigh` else `dblTaxRateLow`
 - Once you know the tax rate multiply by the amount in `_5Entry1` and display the taxes due in the `_5Answer`, format as currency

Group 6: (Switch Command) – With admission Prices and radio button list

33. If all is correct, copy another group of objects
34. Modify all to `_6` etc
35. Add a radio button list (`_6Admission`) with the following items (text/value)
- ```
<asp:ListItem Value="1">0-6</asp:ListItem>
<asp:ListItem Value="2">7-12</asp:ListItem>
<asp:ListItem Value="3">13-20</asp:ListItem>
<asp:ListItem Value="4">21-40</asp:ListItem>
<asp:ListItem Value="5">41+</asp:ListItem>
```
36. Your calculation should use a Switch Statement, based on the “Values” shown above and multiply times the number of tickets desired, show as currency. (Hint: recommend you create a variable as in `dblAdmissionFeePerTicket = 0`, and then set the value for `dblAdmissionFeePerTicket` in the Switch statement
- Value = 1, then admission is \$15
  - Value = 2, admission \$25
  - Value = 3, admission \$35
  - Value = 4, admission \$20;
  - Value = 5, admission \$15.

## FINISH!

37. Test your work.
38. When complete, you will store your entire project folders on the miscapstone server for grading. Close Visual Studio, the slide your entire Project2 folders to <\\miscapstone\mis316\Sectionxxx\S20xxx>. Do not place in the Graded folder. Remember to have Visual Studio closed before you copy the folders to your miscapstone area

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## Your Name - Project 2

Demonstrate IF Statements

### Which Entry is Larger

Enter 1st Value

Enter 2nd Value

Which is Larger

Answer

### Are they equal?

Enter 1st Value

Enter 2nd Value

Test if Equal

Answer

### Are both over 50?

Enter 1st Value

Enter 2nd Value

Both over 50?

Answer

## Is at least one over 50?

Enter 1st Value

Enter 2nd Value

At least one over 50?

Answer

## Tax Due Based on Income

Enter Income

Taxes Due

Taxes Due:

## Admission Due

Enter number of Tickets Desired

Select Age:

- 0-6
- 7-12
- 13-20
- 21-40
- 41+

Admission Due

Admission Due: