ADD BUTTON

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| name | major | status | Credit hours | Textarea output |
| xx | empty | resident | 15 | Missing major! |
| empty | CS | resident | 15 | Missing name! |
| xx | CS | empty | 15 | Missing information! |
| xx | CS | resident | empty | Missing credit hours! |
| John Doe | EE | resident | 18 | Student added. |
| Jane Doe | CS | resident | 2 | Minimum credit hours is 3 |
| Jane Doe | CS | resident | 3 | Student added. |
| John Doe | CS | Resident | 25 | Credit hours exceed the maximum 24. |
| John Doe | CS | Resident | -10 | Credit hours cannot be negative |
| John Doe | CS | Resident | 0 | Minimum credit hours is 3 |
| John Doe | CS | Resident | Hi | Invalid credit. |
| John Doe | CS | Resident | 24 | Student is already in the roster. |
| John Doe | BA | Resident | 24 | Student added |
| John Doe | IT | Resident | 24 | Student added |
| John Doe | CS | Nonresident | empty | Missing credit hours! |
| John Doe | EE | Nonresident | 24 | Student is already in the roster |
| John Doe | CS | Nonresident | 2 | Credit hours cannot be negative. |
| John Doe | CS | Nonresident | 25 | Credit hours exceed the maximum 24 |
| John Doe | IT | Nonresident, NY | 18 | Student added |
| Rob Harrison | ME | Nonresident, CT | 9 | Student added |
| Rob Harrison | ME | Nonresident, CT | 1 | Minimum credit hours is 3 |
| Rob Harrison | ME | Noresident,CT | 25 | Credit hours exceed the maximum 24 |
| Joshua Patel | CS | Nonresident, International | 12, true | Student added |
| Joshua Patel | CS | Nonresident, International | 15, true | Incorrect credit hours. |
| Joshua Patel | CS | Nonresident, International | 15, false | Student added. |
| Joshua Patel | CS | Nonresident, International | 11, false | International students must enroll at least 12 credits. |
| Joshua Paten | CS | Resident | 15 | Student is already in the roster. |

BUTTONS in Student Profiles

User can only select 1 from Major buttons

User can only select 1 from Resident, NonResident buttons

Tristate, International and Study Abroad buttons are disabled at the beginning

Once User select Non-Resident, the Tristate and International buttons will be enabled but Study abroad keeps disabled, all the buttons above will be unselected.

Once user select Resident, all the enabled nonresident buttons will be unselected and disabled.

Each time the user click resident or nonresident, the NY, CT, International and study abroad buttons will be unselected.

If some buttons from Nonresident(NY, CC, International or StudyAbroad) are selected, and the user switch from Nonresident to resident, all the above button will be disabled and unselected.

Tuition Due button

Calculate and output tuition due for a single student.

Student already in the roster:

a, CS, resident, 15

b, EE, nonresident, 15

c, ME, nonresident, NY, 15

d, IT, nonresident, CC, 15

e, BA, nonresident, international, false, 15

e, CS, nonresident, international, true, 12

|  |  |  |
| --- | --- | --- |
| a | CS | 15,804.00 |
| b | CS | Cannot find this student |
| b | EE | 33,005.00 |
| C | ME | 29,005.00 |
| d | IT | 28,005.00 |
| E | BA | 35,655.00 |
| E | CS | 5,918.00 |

UPDATE FOR STUDY ABROAD

Set the study abroad status to true

Student already in the roster:

a, CS, resident, 15

b, EE, nonresident, 15

c, ME, nonresident, NY, 15

d, IT, nonresident, CC, 15

e, BA, nonresident, international, false, 15

e, CS, nonresident, international, true, 12

|  |  |  |  |
| --- | --- | --- | --- |
| A | CS | true | Student is not a international student! |
| E | BA | true | Study abroad status updated. |
| E | BA | True | Student has already attended study abroad program! |
| E | BA | false | Student has already attended study abroad program! |
| Empty | CS | True | Missing name! |
| E | Empty | False | Missing major! |
| Xx | CS | True | Cannot find this student. |

REMOVE BUTTON

Student already in the roster:

a, CS, resident, 15

b, EE, nonresident, 15

c, ME, nonresident, NY, 15

d, IT, nonresident, CC, 15

e, BA, nonresident, international, true, 15

e, CS, nonresident, international, true, 12

|  |  |  |
| --- | --- | --- |
| Xx | CS | Cannot find this student. |
| A | CS | Student removed! |
| A | CS | Cannot find this student. |
| B | EE | Student removed! |
| C | ME | Student removed! |
| D | IT | Student removed! |
| E | BA | Student removed! |
| E | CS | Student removed! |
| Empty | CS | Missing name! |
| A | Empty | Missing major |

PAY BUTTON

Student already in the roster:

a, CS, resident, 15 15,804.00

b, EE, nonresident, 15 33,005.00

c, ME, nonresident, NY, 15 29,005

d, IT, nonresident, CC, 15 28,005

e, BA, nonresident, international, true, 15 5,918

e, CS, nonresident, international, true, 12 5,918

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Major | Amount due before pay | Amount due after pay | Payment amount | Payment date | Textarea output |
| A | CS | 15804 | 10804 | 5000 | 2021/10/20 | Payment applied. |
| A | CS | 10804 | 9804 | 1000 | 2021/10/21 | Payment applied. |
| A | CS | 9804 | 9804 | 9805 | 2021/10/22 | Amount is greater than amount due. |
| A | CS | 9804 | 9804 | -1 | 2021/10/22 | Invalid amount. |
| A | Empty |  |  | 5000 | 2021/10/22 | Missing major! |
| Empty | CS |  |  | 5000 | 2021/10/22 | Missing name! |
| Xx | CS |  |  | 5000 | 2021/10/22 | Student is not in the roster. |
| A | CS | 9804 | 9804 | Xx | 2021/10/22 | Invalid amount. |
| A | CS | 9804 | 9804 | 5000 | 2021/11/3 | Payment date invalid. |
| A | CS | 9804 | 9804 | 5000 | 2020/10/21 | Payment date invalid |

SET financial aid button

Student already in the roster:

a, CS, resident, 15 9,804.00

b, EE, nonresident, 15 33,005.00

c, ME, nonresident, NY, 15 29,005

d, IT, nonresident, CC, 15 28,005

e, BA, nonresident, international, true, 15 5,918

e, CS, nonresident, international, true, 12 5,918

f, CS,resident, resident,10, 6,654.40

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Major | Amount | Textarea output |
| Empty | CS | 1000 | Missing name! |
| A | Empty | 1000 | Missing major! |
| A | CS | 1000 | Tuition updated. |
| A | CS | 1000 | Awarded once already. |
| B | EE | 1000 | Not a resident student. |
| Xx | CS | 1000 | Student is not in the roster. |
| F | CS | 1000 | Parttime student doesn’t qualify for the award. |
| A | CS | Xx | Invalid amount. |
| A | CS | -1 | Invalid amount. |
| A | CS | 10001 | Invalid amount. |

CALCULATE BUTTON and PRINT buttons

Student in the roster:

None

Textarea output : Roster is empty!

Student in the roster:

a, CS, resident, 15

b, EE, nonresident, 15

c, ME, nonresident, NY, 15

d, IT, nonresident, CC, 15

e, BA, nonresident, international, true, 15

e, CS, nonresident, international, true, 12

f, CS,resident, resident,10

print by roster

output:

\* list of students in the roster \*\*

a:CS:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:resident

b:EE:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident

c:ME:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident(tri-state):NY

d:IT:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident(tri-state):CT

e:BA:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:international

e:CS:12 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:international:study abroad

f:CS:10 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:resident

\* end of roster \*\*

Print by name

Output:

\* list of students in the roster ordered by name\*\*

a:CS:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:resident

b:EE:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident

c:ME:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident(tri-state):NY

d:IT:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident(tri-state):CT

e:BA:15 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:international

e:CS:12 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:0.00:total payment:0.00:payment date:--/--/--:non-resident:international:study abroad

f:CS:10 credit hours:tuition due:0.00:total payment:0.00:payment date:--/--/--:resident

\* end of roster \*\*

Print by payment date

Output:

\* list of students made payments ordered by payment date \*\*

\* end of roster \*\*

Calculation completed.

Print by name:

Output:

\* list of students in the roster ordered by name\*\*

a:CS:15 credit hours:tuition due:15,804.00:total payment:0.00:payment date:--/--/--:resident

b:EE:15 credit hours:tuition due:33,005.00:total payment:0.00:payment date:--/--/--:non-resident

c:ME:15 credit hours:tuition due:29,005.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:29,005.00:total payment:0.00:payment date:--/--/--:non-resident(tri-state):NY

d:IT:15 credit hours:tuition due:28,005.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:28,005.00:total payment:0.00:payment date:--/--/--:non-resident(tri-state):CT

e:BA:15 credit hours:tuition due:35,655.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:35,655.00:total payment:0.00:payment date:--/--/--:non-resident:international

e:CS:12 credit hours:tuition due:5,918.00:total payment:0.00:payment date:--/--/--:non-resident:tuition due:5,918.00:total payment:0.00:payment date:--/--/--:non-resident:international:study abroad

f:CS:10 credit hours:tuition due:6,654.40:total payment:0.00:payment date:--/--/--:resident

\* end of roster \*\*

a,CS, pay, 1000, 10/10/2021

b,EE, pay, 500, 10/09/2021

c,ME, pay, 500, 10/08/2021

print by payment date

output:

\* list of students made payments ordered by payment date \*\*

c:ME:15 credit hours:tuition due:28,505.00:total payment:500.00:payment date:10/8/2021:non-resident:tuition due:28,505.00:total payment:500.00:payment date:10/8/2021:non-resident(tri-state):NY

b:EE:15 credit hours:tuition due:32,505.00:total payment:500.00:payment date:10/9/2021:non-resident

a:CS:15 credit hours:tuition due:14,804.00:total payment:1,000.00:payment date:10/10/2021:resident

\* end of roster \*\*