**University of Michigan – Dearborn**

**CIS 150 – Computer Science 1**

**Lab# 2**

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# Question 1

## Test Cases

Test Table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test # | Valid / Invalid Data | Description of test | Input Value | Actual Output | Test Pass / Fail |
| 1 | valid | Input test values for each INT variable to test if their sum is the correct value | pennies = 1  nickels = 2  dimes = 3  quarters = 4  dollars = 5 | total = 6.41 | Pass |
| 2 | valid | Input test values for each INT variable to test if their sum is the correct value | pennies = 0  nickels = 2  dimes = 4  quarters = 6  dollars = 8 | total = 10.0 | Pass |
| 3 | valid | Input test values for each INT variable to test if their sum is the correct value | pennies = 10  nickels = 9  dimes = 3  quarters = 4  dollars = 5 | total = 6.85 | Pass |
| 4 | valid | Input test values for each INT variable to test if their sum is the correct value | pennies = 1  nickels = 10  dimes = 20  quarters = 400  dollars = 555 | total = 657.51 | Pass |
| 5 | invalid | Test what will happen if non-Int values are input (should fail) | pennies = 1.1  nickels = n/a  dimes = n/a  quarters = n/a  dollars = n/a | total = -1.15964e+09 | Pass |

## Source Code – SEE LAB2Q1.cpp FILE IN CANVAS

See .cpp file: SEE LAB2Q1.cpp FILE UPLOADED IN CANVAS

## Screenshots

TEST 1 (LAB2Q1)

![A screenshot of a cell phone

Description automatically generated]()

TEST 2 (LAB2Q1)

![A screenshot of a computer

Description automatically generated]()

TEST 3 (LAB2Q1)

![A screenshot of a computer

Description automatically generated]()

TEST 4 (LAB2Q1)

![A screenshot of a computer

Description automatically generated]()

TEST 5 (LAB2Q1)

![A screenshot of a cell phone

Description automatically generated]()

# Question 2

## Test Cases

Test Table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test # | Valid / Invalid Data | Description of test | Input Value | Actual Output | Test Pass / Fail |
| 1 | Valid | Test user-input integer values to see if program outputs correct sum | first\_Integer  = 1  second\_Integer  = 2 | integer\_Sum  = 3 | Pass |
| 2 | Valid | Test user-input integer values to see if program outputs correct sum | first\_Integer  = 0  second\_Integer  = 0 | integer\_Sum  = 0 | Pass |
| 3 | Valid | Test user-input integer values to see if program outputs correct sum | first\_Integer  = 100  second\_Integer  = 237 | integer\_Sum  = 337 | Pass |
| 4 | Valid | Test user-input integer values to see if program outputs correct sum | first\_Integer  = 1234  second\_Integer  = 5678 | integer\_Sum  =  6912 | Pass |
| 5 | invalid | Test what will happen if non-Int values are input (should fail) | first\_Integer  = 1.1  second\_Integer  = n/a | integer\_Sum  = 1 | Pass |

## Source Code – SEE LAB2Q2.cpp

See .cpp file: SEE LAB2Q2.cpp FILE UPLOADED IN CANVAS

## Screenshots

TEST 1 (LAB2Q2)

![A screenshot of a cell phone

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TEST 2 (LAB2Q2)

![A screenshot of a cell phone

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TEST 3 (LAB2Q2)

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TEST 4 (LAB2Q2)

![A screenshot of a cell phone

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TEST 5 (LAB2Q2)

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