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CMSC 215 / 6381

Project 1

8/23/2023

**UML Diagram**

|  |
| --- |
| **Height** |
| feet:int  inches:int |
| toInches()  toString() |

|  |
| --- |
| **Player** |
| name:String  height:Height  age:int |
| getName()  getHeight()  getAge()  toString() |

|  |
| --- |
| **Project 1** |
| p:Player  h:Height |
| main() |

**Test Plan:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test #** | **Input(name, height, age, continue 0 = Y, 1 = N)** | **Output** | **Expected Output** | **Pass Y/N** | **Notes** |
| **1** | (tiger, 6 2, 45, 0), (tony, 6 0, 27, 1) | Average age = 36  Display tallest (Name: tony  Height: 6’ 0”  Age: 27) | Average age = 36  Display tallest (Name: tony  Height: 6’ 0”  Age: 27) | **Y** | Basic test with 2 entries. |
| **2** | (shaw, 5 14, 25, 0), (jess, kjs, -), (jess, 5 8, 23, 0), (kyle, 6 0, 27, 1) | Invalid entry (jess, kjs)  Average age = 25  Display tallest (Name: shaw  Height: 6’ 2”  Age: 25) | Invalid entry (jess, kjs)  Average age = 25  Display tallest (Name: shaw  Height: 6’ 2”  Age: 25) | **Y** | Validation testing for height input |
| **3** | (john, 5 10, 28, yes, 0), (liz, 5 6, 25, 1) | Are you sure you want to terminate the program?  Average age = 26  Display tallest (liz) | Are you sure you want to terminate the program?  Average age = 26  Display tallest (liz) | **Y** | Validation testing for continue input |
| **4** | (tony, 5 10, 25, 0), (matt, 5 13, 27, 0), (carl, 5 5, 31, 0), (jazz, 6 3, 26, 0), (carly, 6 0, 24, 1) | Average age = 26  Display tallest (carly) | Average age = 26  Display tallest (jazz) | **N** | Test of 5 entries, average age is 26 but jazz is not the displayed answer. Could be an error in calculating average age |

**Test 1:**

A computer screen shot of a computer screen

Description automatically generated

**Test 2:**

A screenshot of a computer

Description automatically generated

**Test 3:**

A computer screen shot of a computer screen

Description automatically generated

**Test 4:**

A screenshot of a computer

Description automatically generated