## **CS1428**

## **Summer 2022**

## Assignment 3 Rubric

<b>Student Name:</b>	

**Style: 20 points** 

Condition	Max Points Points Awarded
All lines less that 80 characters.	4
Variables have meaningful names.	4
Every block indented one tab or 4 spaces.	4
Comments included for "complicated" actions.	2
File name is [Authors Last Name]_assignment3.cpp	4
Author, date, and collaborator comments included.	2

**Code Refactor: 30 points** 

Condition	Max Points Points Awarded
Design New Ship implemented as 1 function	6
Test a Ship Design implemented as 1 function	6
Simulate a Flight implemented as 1 function	6
Menu branches each call 1 function	6
Good comments for all function returns and parameters	6

**Test Cases: 50 points** 

Input	Test Condition (Not exact output)	Max Points Points Awarded
D	Contents of Sally.txt	3
Walter Hohman	Ship Mass: 500.0kg	
Sally	Acceleration: 10.4m/s2	
500	Impulse: 22.9Ns/kg	
5200	Max Altitude: 469.0km	
	Designed by: Walter Hohman	
D	Contents of Valentina.txt	3
Jules Verne	Ship Mass: 340.0kg	
Valentina	Acceleration: 2.0m/s2	
340	<pre>Impulse: 6.8Ns/kg</pre>	
679	Max Altitude: 145.6km	
	Designed by: Jules Vernes	
D	Contents of Kalpana.txt	3
Isaac Asimov	Ship Mass: 100.0kg	
Kalpana	Acceleration: 5.6m/s2	
100	Impulse: 16.9Ns/kg	
560	Max Altitude: 347.7km	
	Designed by: Isaac Asimov	
T	Console prints, "Sally has failed	5
Sally	test number 3"	
t	Console prints, "Valentina has	5
Valentina	failed test number 4"	
T	Console prints, "Kalpana has	5
Kalpana	passed all tests."	3
j	Console prints error message.	2
J	console prints error message.	2
S	Console Output	10
15	At 0 seconds: 0.0m/s 0.0m	
0		
S	Console Output	10
7.5	At 0 seconds: 0.0m/s 0.0m	
40		
	At 10 seconds: 75.0m/s 375.0m	
	 At 40 seconds: 300.0m/s 6.0km	
q	Program prints, "Thank you for	4
٦	using Craft Designer Plus." and	
	as a significant of the signific	

<sup>\*</sup>values can be +- 0.1

All test cases will be entered in order on one run of the program.

<b>Total Points:</b>	
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