Object-Oriented Programming Homework #1

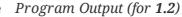
Jan 20th, 2023

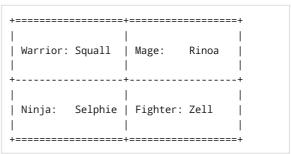
Introduction to C++

- 1. Write a program that reads names for four heroes (Warrior, Mage, Ninja, and Fighter) and draws frames around these names. All frames must have equal width and height.
 - 1.1) Draw frames using '*' like the example output Program Output (for 1.1) shown on the right:



1.2) Draw frames using '+', '-', '=', and '|' like the *Program Output (for 1.2)* example output shown on the right:





2. From the Fahrenheit to Celsius formula $^{\circ}C = (5/9)(^{\circ}F - 32)$, write programs to print the following tables:

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2.1)	2.2)	2.3)
Fahr Celcius	Fahr Celcius	Fahr Celcius
0 -17.8	0 -17.8	300 148.9
20 -6.7	40 4.4	280 137.8
40 4.4	80 26.7	260 126.7
260 126.7	200 93.3	40 4.4
280 137.8	240 115.6	20 -6.7
300 148.9	280 137.8	0 -17.8

You must draw a flow chart or write pseudocode before writing real programs.

3. Write a program that takes a value N, then draws N random number from range [0, 1]. Calculate the mean squared error (MSE) of the number drawn against 0.5. You must draw a flowchart or write pseudocode before writing a real program.