Computer Programming II   Mrs. Alano

Exercise 1 – Gravity.cpp

Relative gravities of most planets in the solar system, the Sun, and the Moon, are shown below. They let us find what a given weight on Earth would weigh on each body.

Sun = 27.94	Mercury = .37	Venus = .88
Moon = .17	Mars = .38	Jupiter = 2.64
Saturn = 1.15	Uranus = 1.17	Neptune = 1.18

Write a program that lets a user find his/her weight on any of these. It should ask to enter the first letter (type char) of the planet or body wanted, and then, if there's an ambiguous situation (as in S or M) it should prompt for the second letter. In other words, a nested switch statement is required. Another possibility is to make each body correspond to a number and then have the user enter the number for the body desired. (ex sun = 1, Moon = 2, etc.) (you should use a switch statement for this project)

Exercise 2 – RPS.cpp

Write a program that plays the children's game Rock, Paper, Scissors. Two char inputs will represent the two players. There are only three rules: Scissors cut paper, Rock Crushes Scissors, and Paper covers Rock. Have the program prompt for the two players' choices then determine whether player 1 or player 2 is the winner of that round.