

Exercises:

Problem 1:

Write a script that asks the user for an integer n and prints out the value of $\frac{1 + n^2}{1 + n^3}$ as a floating point.

Problem 2:

Write a script that asks a user for a number of miles (floating point). The program returns the same distance in kilometers.

Problem 3:

Write a script that asks the user for an integer n . The program then prints out "It is" if $n^3 + n^2 + 1$ is divisible by 7 and "It is not" otherwise.

Problem 4:

Write a script that translates an integer number representing an exam score (given by the user as input) into American style grades. Assume that the exam has a total of 160 points. The outcome is an 'A', if the grade is more than 90% of all possible points, 'B' if the grade is between 80% and 90% of all possible points, 'C' if the grade is between 65% and 80%, a 'D', if the grade is between 55% and 65%, and 'F' if the grade is 55% or less.