//comments are highlighted in yellow

/\* Goal: convert dollars to Martian currency amounts using dimensional analysis \*/

Print statement prompts user with the choice of (1) entering a numerical amount of dollars

or (2) have the system randomly generate a dollar amount

IF input = 1

Print statement asking user to input a value between 80 and 10,000,000

use Scanner class object named inputtedAmount to allow user to input num between 80 and 10,000,000

Declare and initialize dollarAmount to inputtedAmount

ELSE IF input = 2

use Math.random() method to generate num betwwn 80 and 10,000,000 inclusive

Declare and initialize dollarAmount to number generated by Math.random()

ELSE

print statement telling the user the number is out of range

Declare and initialize tintina to dollarAmount / 80

Declare and initialize tintinaToDollars to 80 \* tintina

Declare and initialize leftoverAmount to dollarAmount – tintinaToDollars

//Convert leftover dollars to sutton

Declare and initialize sutton to leftoverAmount / 80 \* 5

//convert the sutton back to dollars then subtract amount from leftoverAmount

Declare and initialize suttonToDollars = sutton / 5 \* 80

Set leftoverAmount to leftoverAmount – suttonToDollars

//convert leftoverAmount to knorr

Declare and initialize knorr to leftoverAmount / 80 \* 5 \* 2

//convert the knorr back to dollars then subtract amount from leftoverAmount

Declare and initialize knorrToDollars to knorr / 2 / 5 \* 80

Set leftoverAmount to leftoverAmount – knorrToDollars

//convert the leftoverAmount to Wernicke. Then convert wernicke to dollars and then subtract amount from leftoverAmount

Declare and initialize Wernicke to leftoverAmount / 80 \* 5 \* 2 \* 8

Declare and initialize wernickeToDollars to wernicke / 8 / 2 / 5 \* 80

Set leftoverAmount to leftoverAmount – wernickeToDollars

Print dollarAmount + "$ in Martian currency is " + tintina + " tintina, " + sutton + "sutton, " + knorr + " knorr, and " + wernicke + " wernicke."