import java.util.Scanner

fun main() {

val scanner = Scanner(System.`in`)

println("Enter a numeric value:")

val value = scanner.nextDouble() //”Value” variable accept input from user in numeric value

println("Enter the current unit of measurement:")

val currentUnit = scanner.next().lowercase() //” currentUnit” variable accept input in measurement from user

println("Enter the target unit of measurement:")

val targetUnit = scanner.next().lowercase() // “targetUnit” variable accept unit input in measurement

val convertedValue = convertMeasurement(value, currentUnit, targetUnit)

//if condition return user message based on user input

if (convertedValue != null) {

println("Converted value: $convertedValue")

} else {

println("Invalid units of measurement.")

}

}

// “convertMeasurement” function process inputed values to convert based on user input

fun convertMeasurement(value: Double, currentUnit: String, targetUnit: String): Double? {

return when {

currentUnit == "km" && targetUnit == "mi" -> value \* 0.62

currentUnit == "mi" && targetUnit == "km" -> value \* 1.61

currentUnit == "cm" && targetUnit == "in" -> value \* 0.39

currentUnit == "in" && targetUnit == "cm" -> value \* 2.54

currentUnit == "kg" && targetUnit == "lb" -> value \* 2.2

currentUnit == "lb" && targetUnit == "kg" -> value \* 0.45

currentUnit == "g" && targetUnit == "oz" -> value \* 0.04

currentUnit == "oz" && targetUnit == "g" -> value \* 28.35

else -> null

}

}