

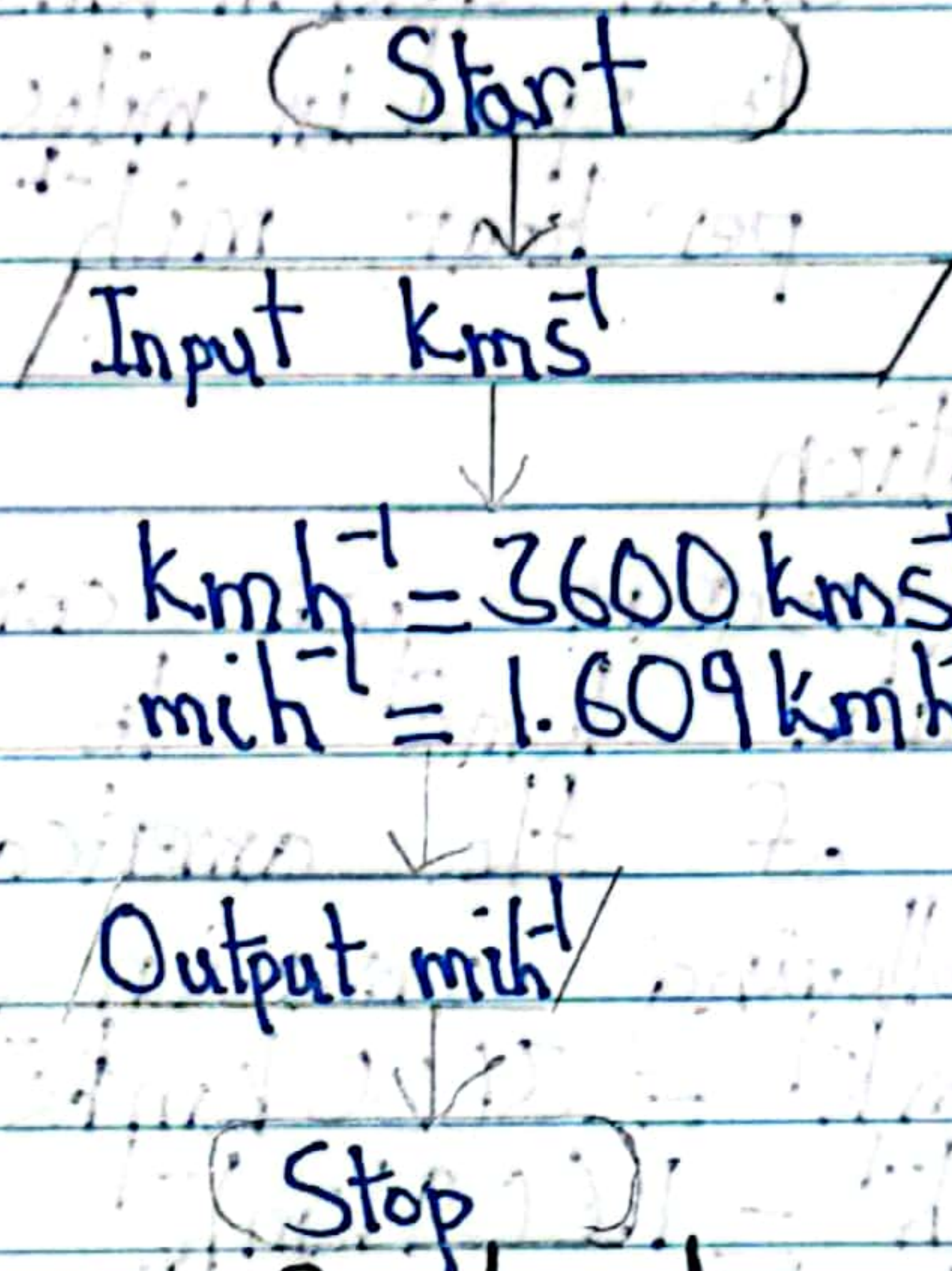
24k-0001 PF Assignment: 1

M. masoom Khan

Date: 2-11-2021

Q1

Flowchart



Pseudocode

Start

Input km/s

Processing

$$\begin{aligned} \text{km/h} &= 3600 \text{ km/s} \\ \text{mi/h} &= 1.609 \text{ km/h} \end{aligned}$$

Output

The speed in miles per hour is "mi/h"

Stop

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Q1

IPO

Input	Process	Output
Speed in km s^{-1}	Convert speed in km s^{-1} to speed in miles per hour mi h^{-1}	Speed in mi h^{-1}

Explanation

In this program we converted units of speed from km s^{-1} to mile per hour of ease of the america people.

The following conversion formulas were used

$$1 \text{ km h}^{-1} = 3600 \text{ km s}^{-1}$$

$$1 \text{ mi h}^{-1} = 1.609 \text{ km h}^{-1}$$

The output was the value of units in mi h^{-1} .