PF THEORY Date: _____

Assignment # 1 :

Problem 1 : Miles per hour to kilometers per seconds second)

Understood : Conversion to m/h (miles per hour) from km/s (kilometer per

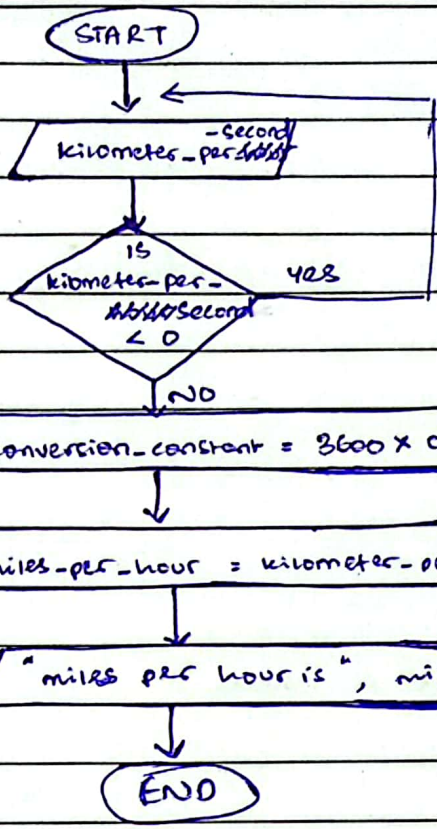
Solution/approach : Multiplying km/s with a factor so km is changed to mile and second equal representation in hour is displayed.

Pseudocode :

```
START
    OUTPUT " Enter the speed in km/s in the format kilometer / second : "
    INPUT kilometer_per_second
    IF kilometer_per_second < 0
      THEN
        OUTPUT " speed cannot be negative "
        continue
    ENDIF
    conversion_constant = 3600 * 0.62137
    miles_per_hour = kilometers_per_second * conversion_constant
    OUTPUT " speed in miles per hour is ", miles_per_hour
END
```

Date: _____

Flowchart :



IPO Chart :

Input	Processing	Output
1. Input speed in kilometer/second	1. Check if the speed is non-negative number	1. Enter valid speed, positive
	2. Convert speed in miles per hour by multiplying with (3600 x 0.62137).	2. speed in miles per hour