

Input = water

Process = transferring water from one jug to another

Output = 4L of water

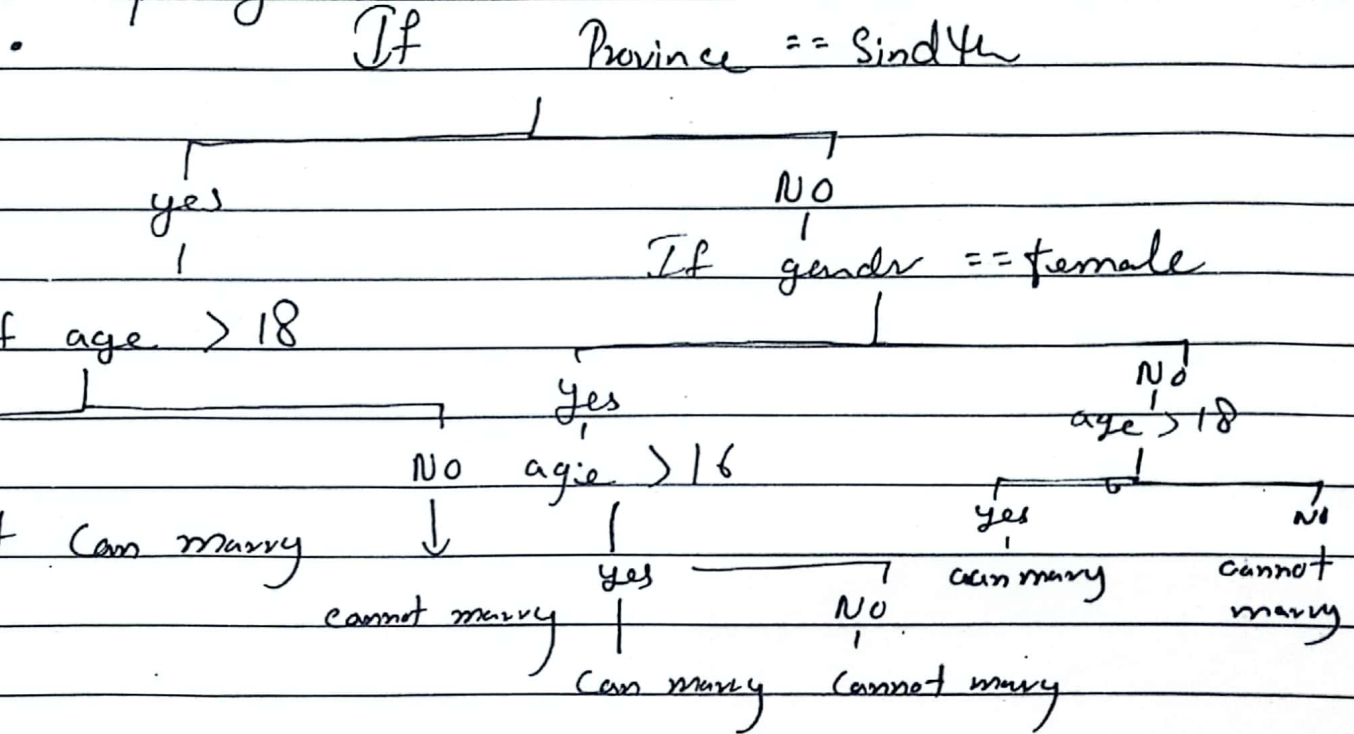
pseudo - Code

- pour 3L water into 3L jug
- transfer water of 3L from 3L to 5L jug
- Fill 3L jug again
- transfer water from 3L to 5L jug until full.
- Empty 5L jug
- transfer remaining water from 3L to 5L
- Fill 3L again
- Transfer again from 3L to 5L
- You get 4L water.

Explanation : I applied a logical approach to problem and solved it logically where I kept transferring water until I got 4L into the 5L jug.

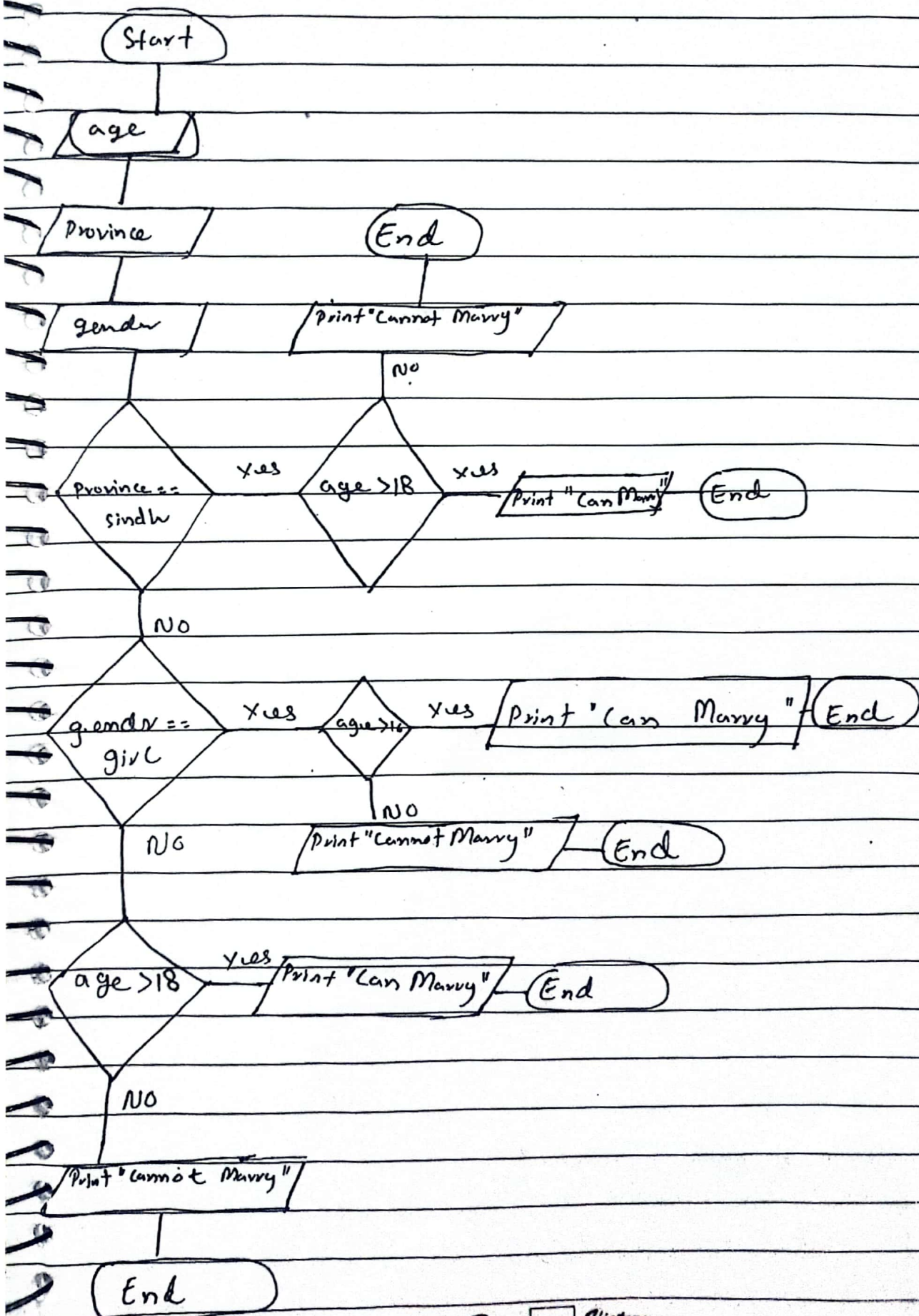
Pseudo - Code :

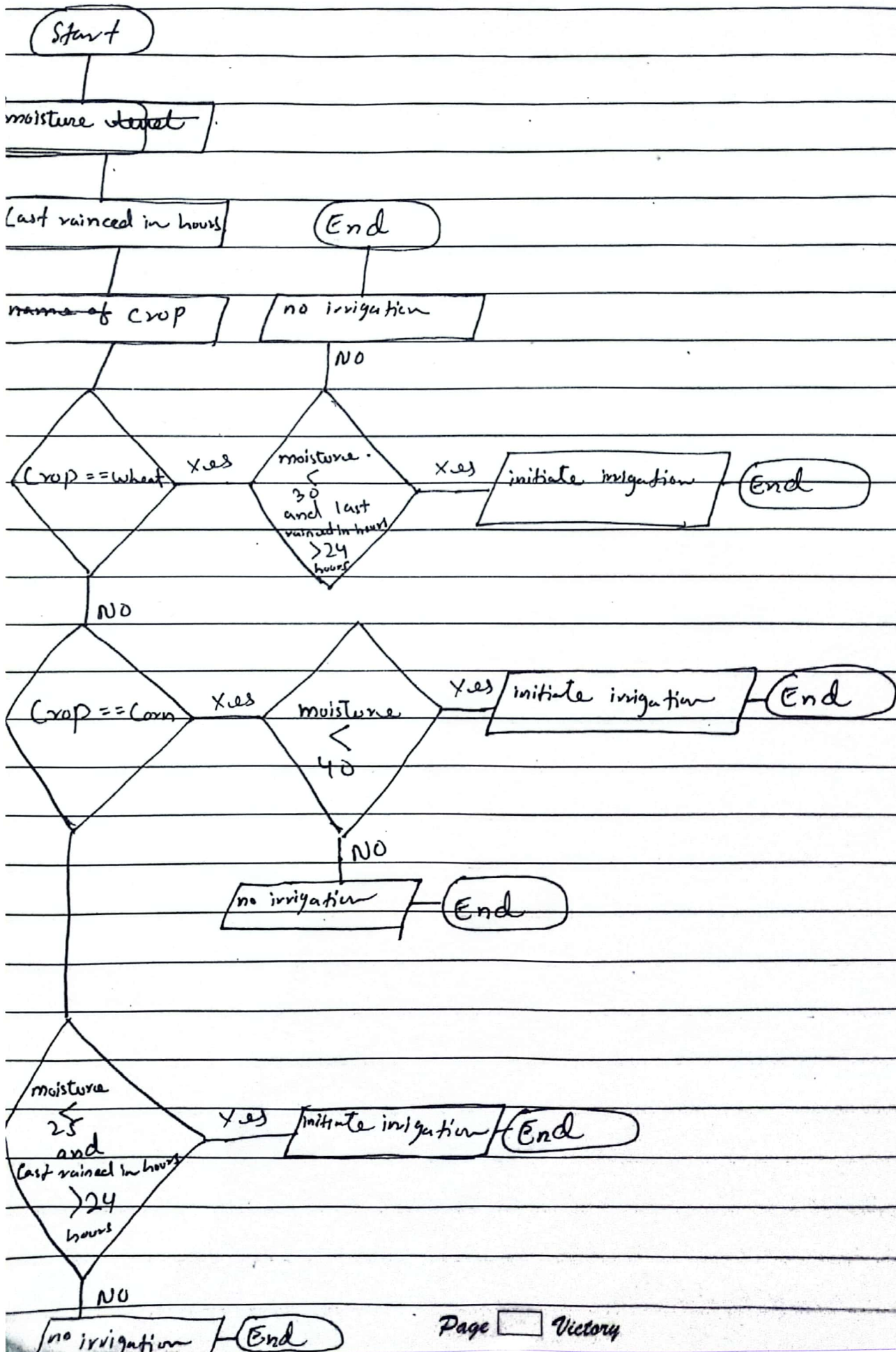
- Input age
- Input province
- Input gender



Explanation : I solved this using decision box as the problem was very easy and not that complex









Prob 5

Date: \_\_\_\_\_

Pseudo - Code :

- Input Moisture
- Input last rained in hours
- Input Crop
- If wheat and moisture  $< 30$  and last rained  $> 24$  initiate irrigation
- If Crop Corn and moisture  $< 40$  "initiate irrigation"
- ~~If moisture~~ Else moisture  $< 25$  and last rained  $> 24$  initiate irrigation
- No print "no irrigation".

Explanation: This question was solved using nested if else statement, and in one decision box two conditions were given using "and" operator.

# Prob 1

Date: \_\_\_\_\_

Start

Speed in  
km/h

$mph = speed \times 0.621$

Print "mph"

End

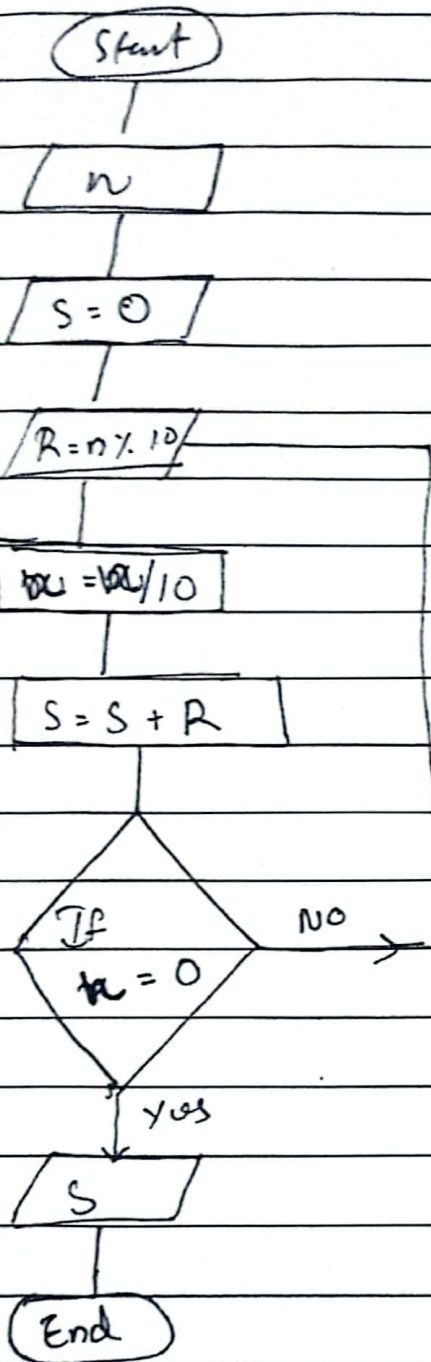
## Pseudo Code

- Input speed
- $mph = speed \times 0.621$
- Print "mph"

Explanation : using ~~or~~ simple mathematics this question was solved and conversion rate or unit were used as well.

# Prob 8

Date: \_\_\_\_\_



• Input  $n$

•  ~~$S = 0$~~  *valida* Set  $S = 0$

•  ~~$R = \text{Set}$~~   $R = n \text{ mod } 10$

• Set  $n = n \text{ div } 10$

• set  $S = S * 10 \text{ plus } R$

• while

$n = 0$  Repeat from  $R = n \text{ mod } 10$

• Else print  $S$

Explanation: This was solved using the modulus function, where it starts by taking last digit and adding them from back wards.

Some int and variable were set.