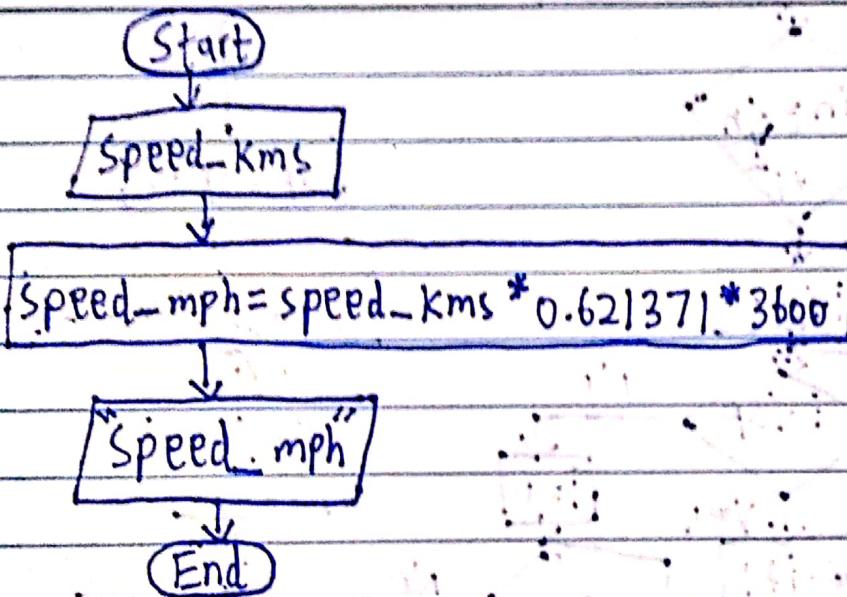
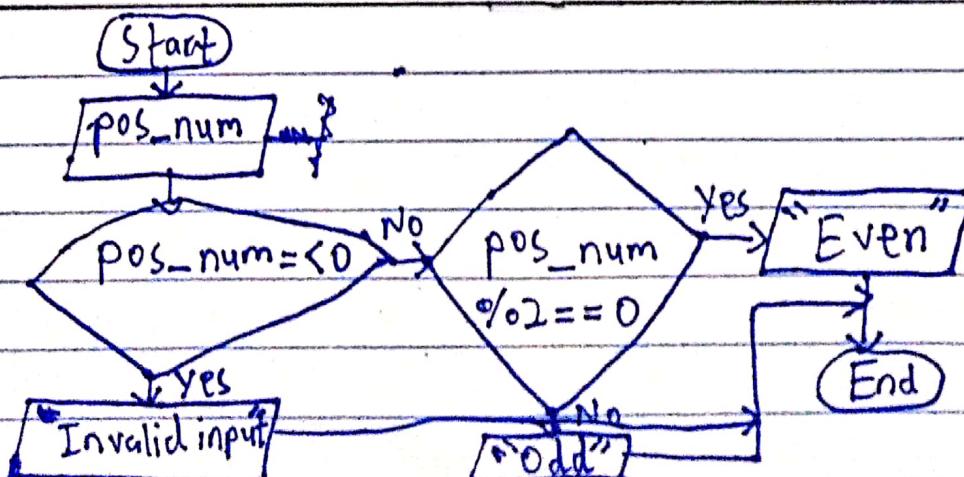


Name: Obaidullah Khan Roll no: 24K-0788 Section: 'C'  
Assignment 1

problem1	Input	Process	Output
	Speed in km/s	<ul style="list-style-type: none"> <li>Convert km to mile</li> <li>Multiply ans by 3600 to convert sec to hr</li> </ul>	speed in mph



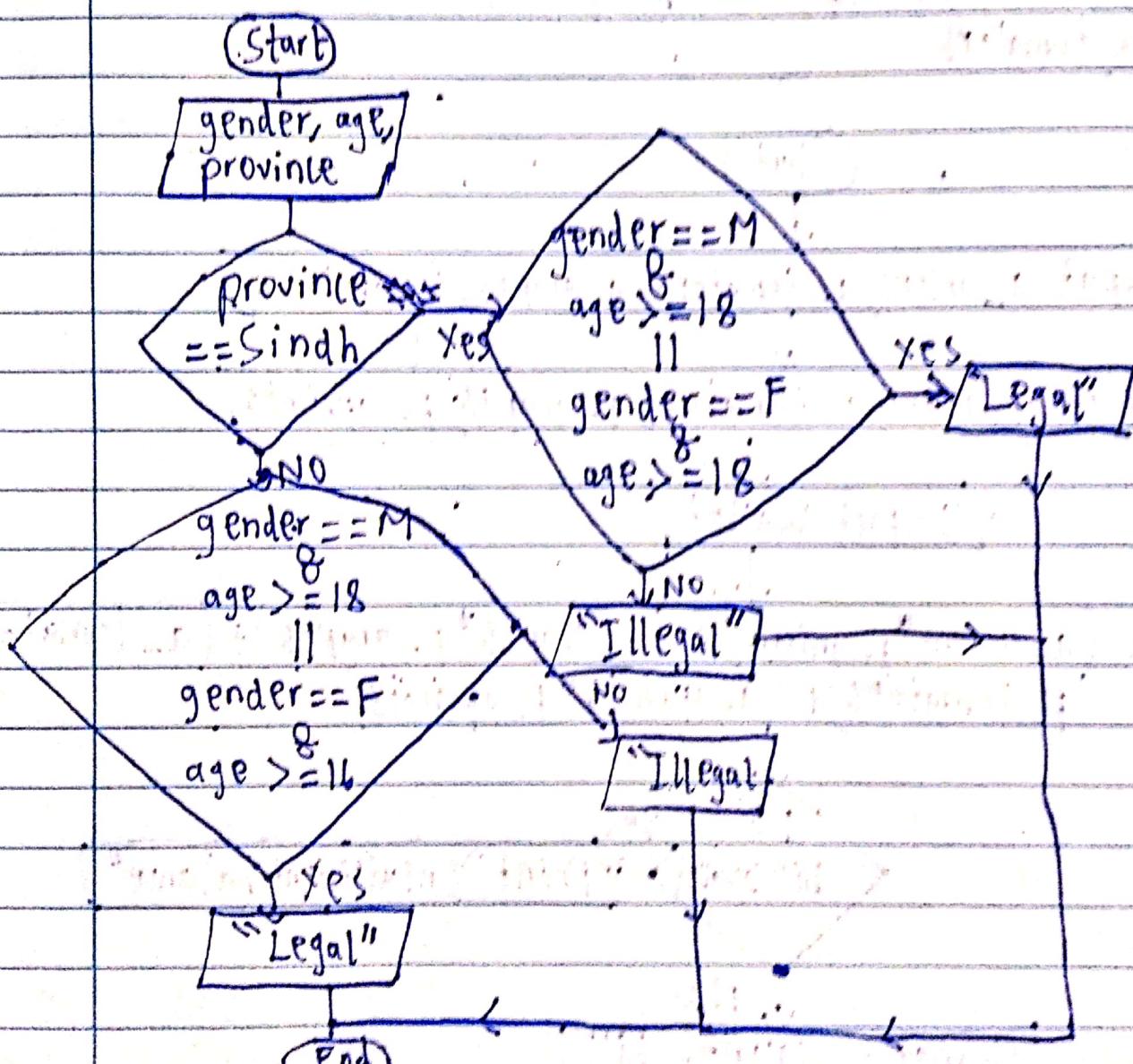
problem2	Input	Process	Output
	Number greater than 0	<ul style="list-style-type: none"> <li>Check the number is even or odd by <math>\% 2</math></li> </ul>	Determining and printing number is even or odd



Problem Input      Process      Output

Gender, Age      . check province first  
and Province      : Then according to its  
laws check wheather  
marriage is legal.

• The marriage is legal  
or illegal.



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

problem	Input	Process	Output
• Amount of onions, apricots, grapes, tomatoes and money	• calculate bill • Compare with his wallet	• Change • Total bill	
• price of onions, apricots, grapes, tomatoes	• Output amount of money to be payed		

Start

Input  $a_{-}$  onions,  $a_{-}$  tomatoes,  $a_{-}$  grapes,  $a_{-}$  apricotsInput:  $p_{-}$  onions,  $p_{-}$  tomatoes,  $p_{-}$  grapes,  $p_{-}$  apricots

Input Wallet

$$\text{bill} = (a_{-} \text{onions} * p_{-} \text{onions}) + (a_{-} \text{grapes} * p_{-} \text{grapes}) + (a_{-} \text{tomatoes} * p_{-} \text{tomatoes}) + (a_{-} \text{apricots} * p_{-} \text{apricots})$$

IF  
 $\text{bill} > \text{wallet}$  → Yes

Print "Insufficient balance"

No

$$\text{change} = \text{wallet} - \text{bill}$$

Print "Your bill:", bill

Print "Your change:", change

End

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

## Problem 5

## Input

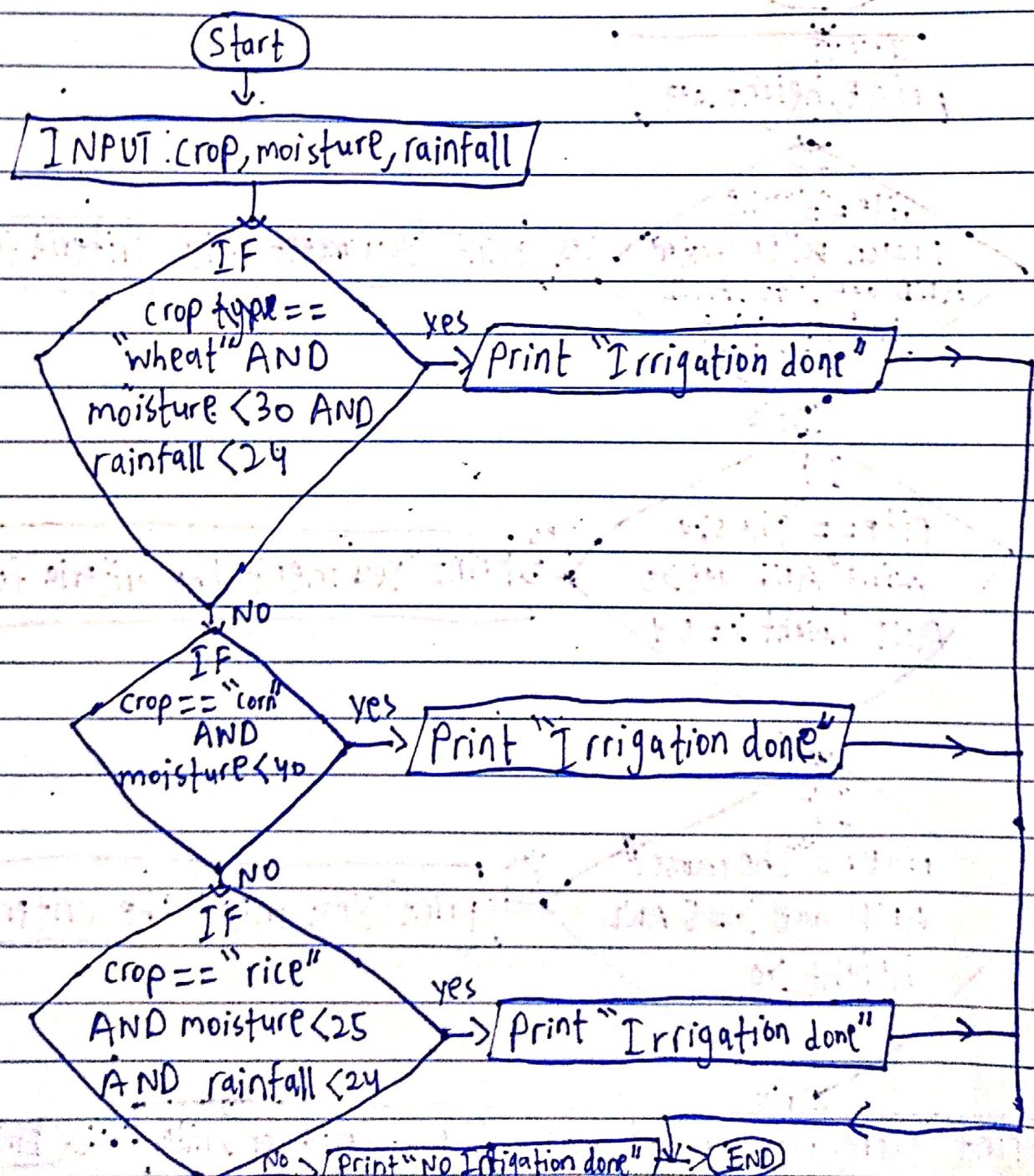
Crop type  
Soil moisture  
rainfall status

## Process

- Check threshold's criteria
- If it meets then no irrigate, otherwise yes

## Output

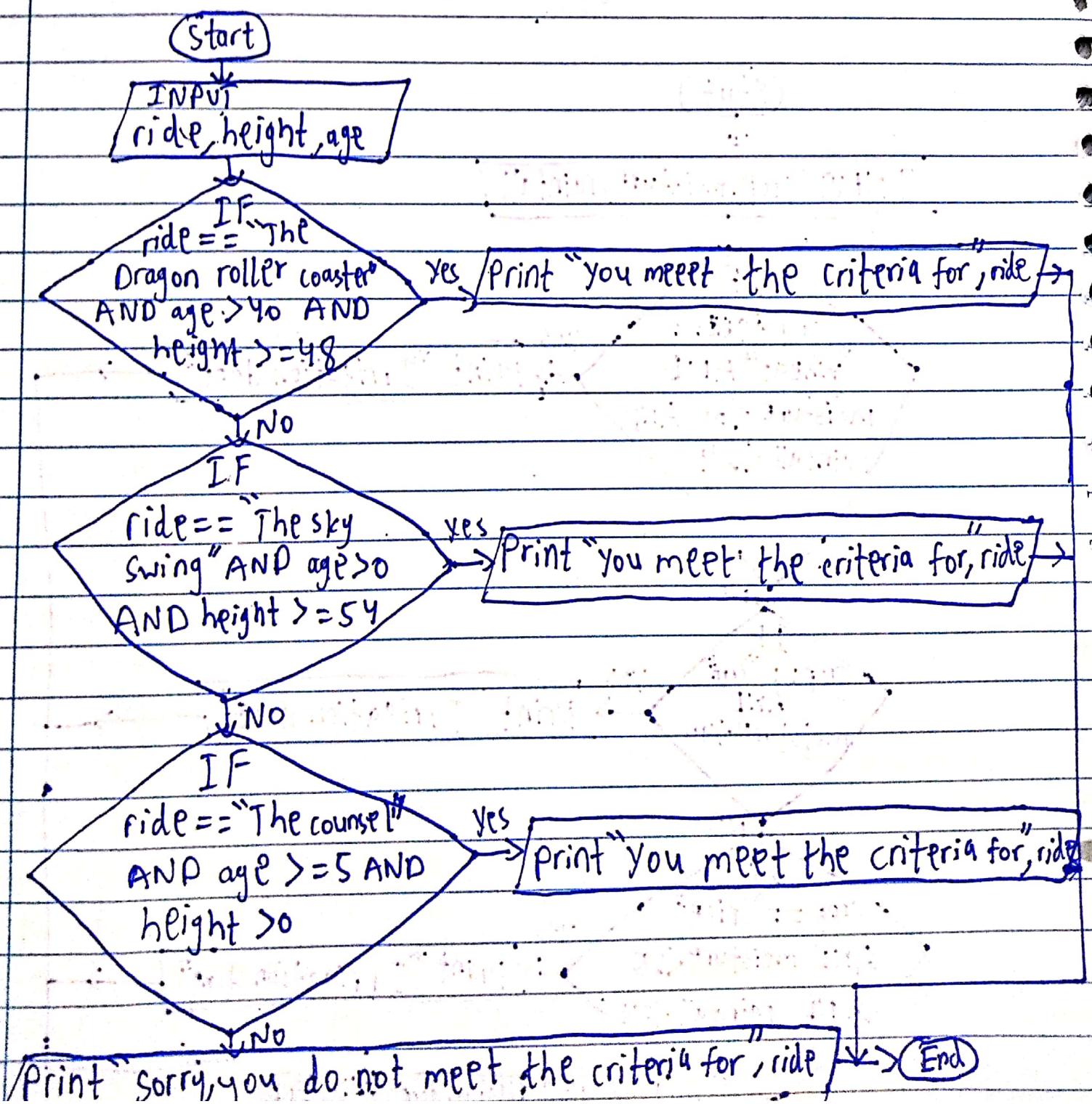
"Irrigation done"  
"No Irrigation done"



Problem 6 INPUT Process OUTPUT

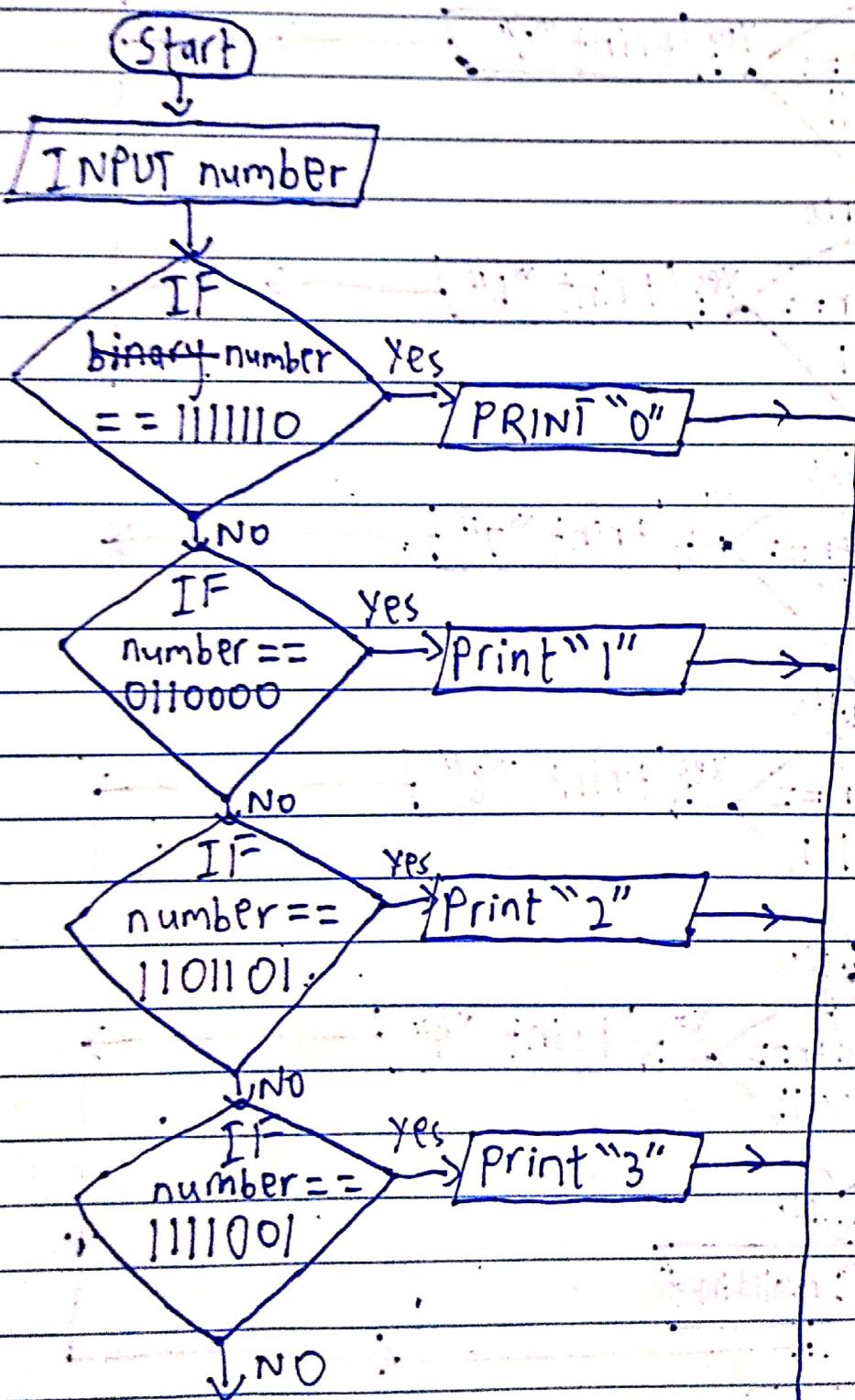
height, age, ride. • check whether the user meets the requirement for given ride.

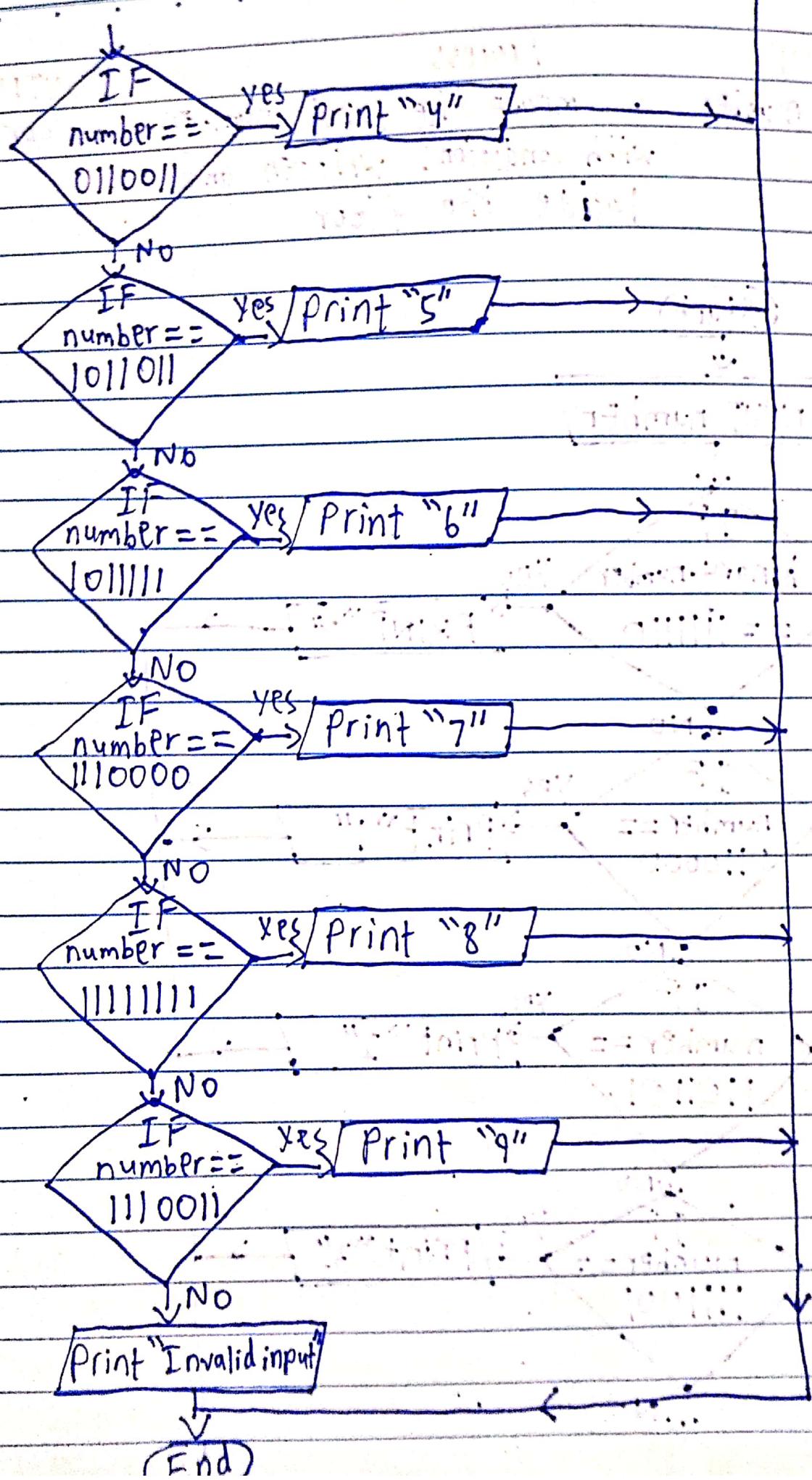
• If eligible, print "you meet criteria for ride", else "Sorry, you can't ride"



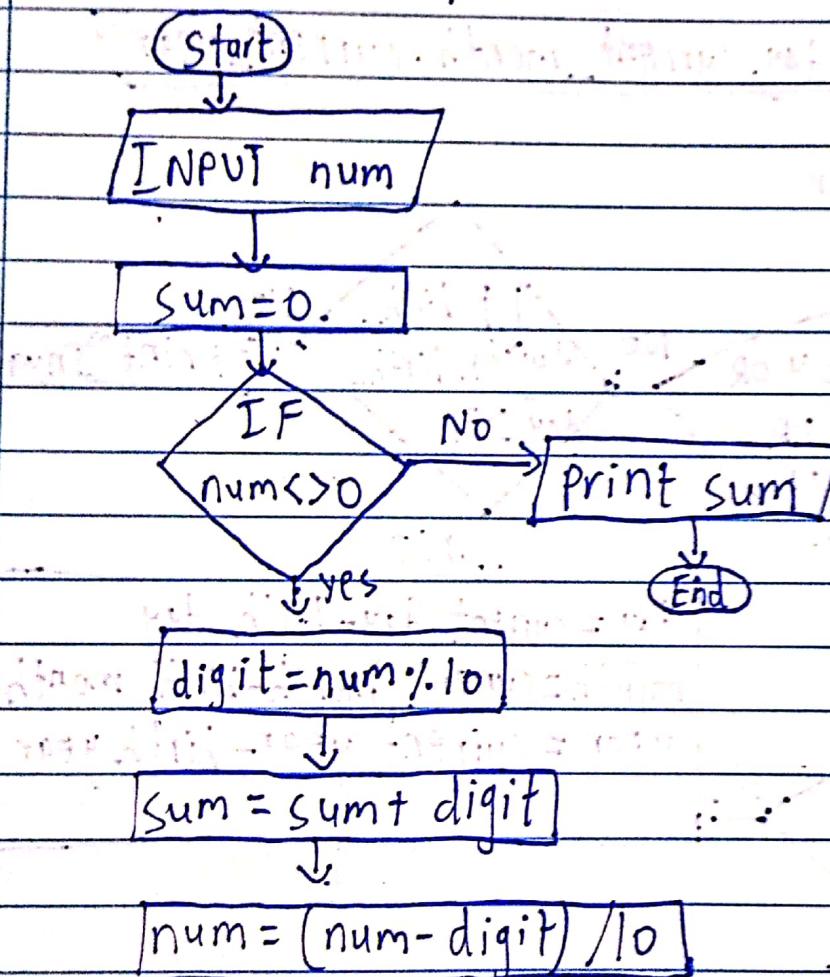
Problem INPUT Process OUTPUT

Binary number compare the input number with conditions written and decide the floor

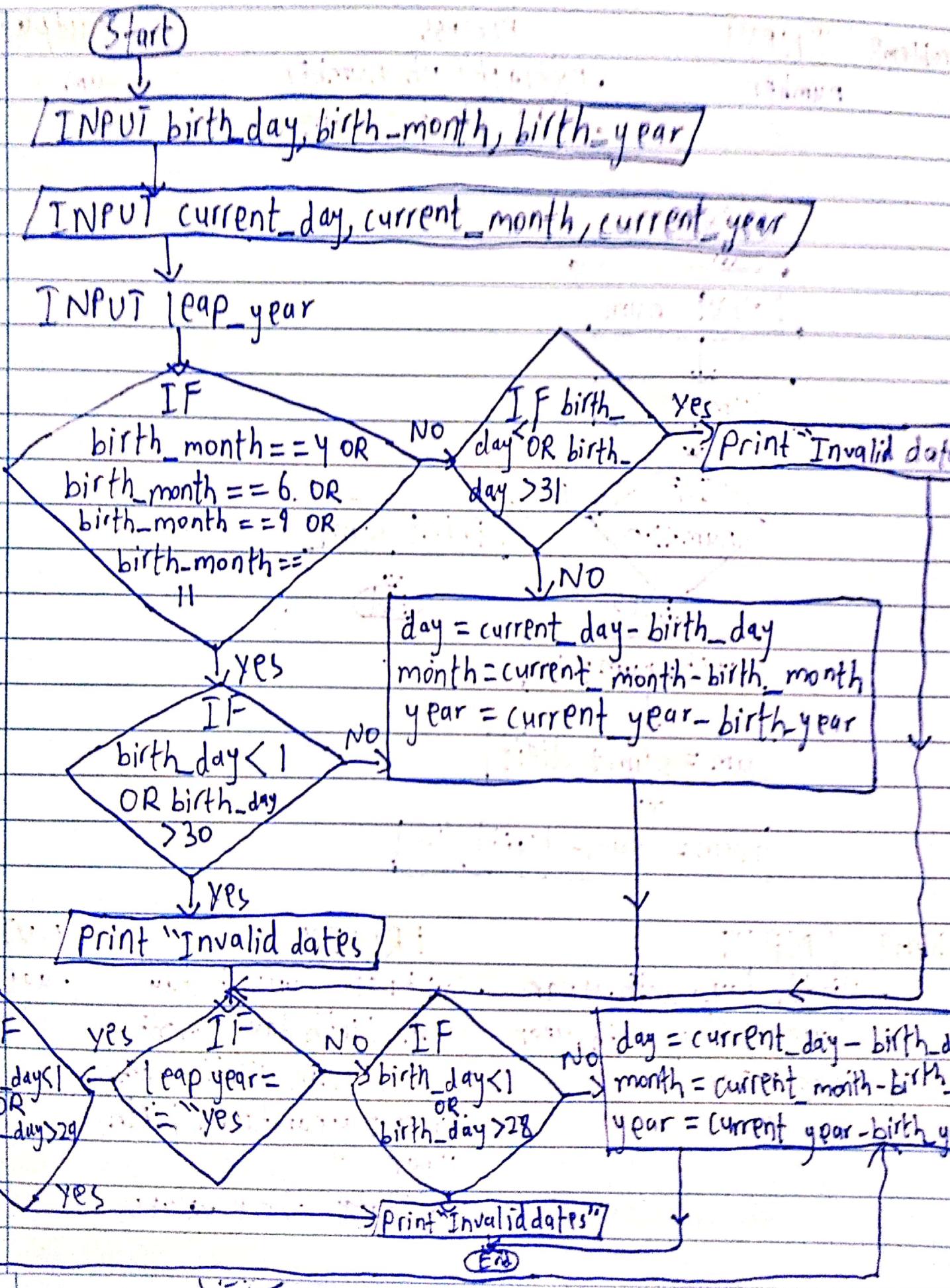




Problem 8	INPUT	Process	Output
	number	<ul style="list-style-type: none"> <li>• extract each number</li> <li>• add it to sum</li> </ul>	sum



Problem	INPUT	PROCESS	OUTPUT
	Birth day, month, year	Subtract current day	age.
	Current day, month, year from birth day, current leap year	month from birth month,	
		current year from birth year	
		Validate these values	

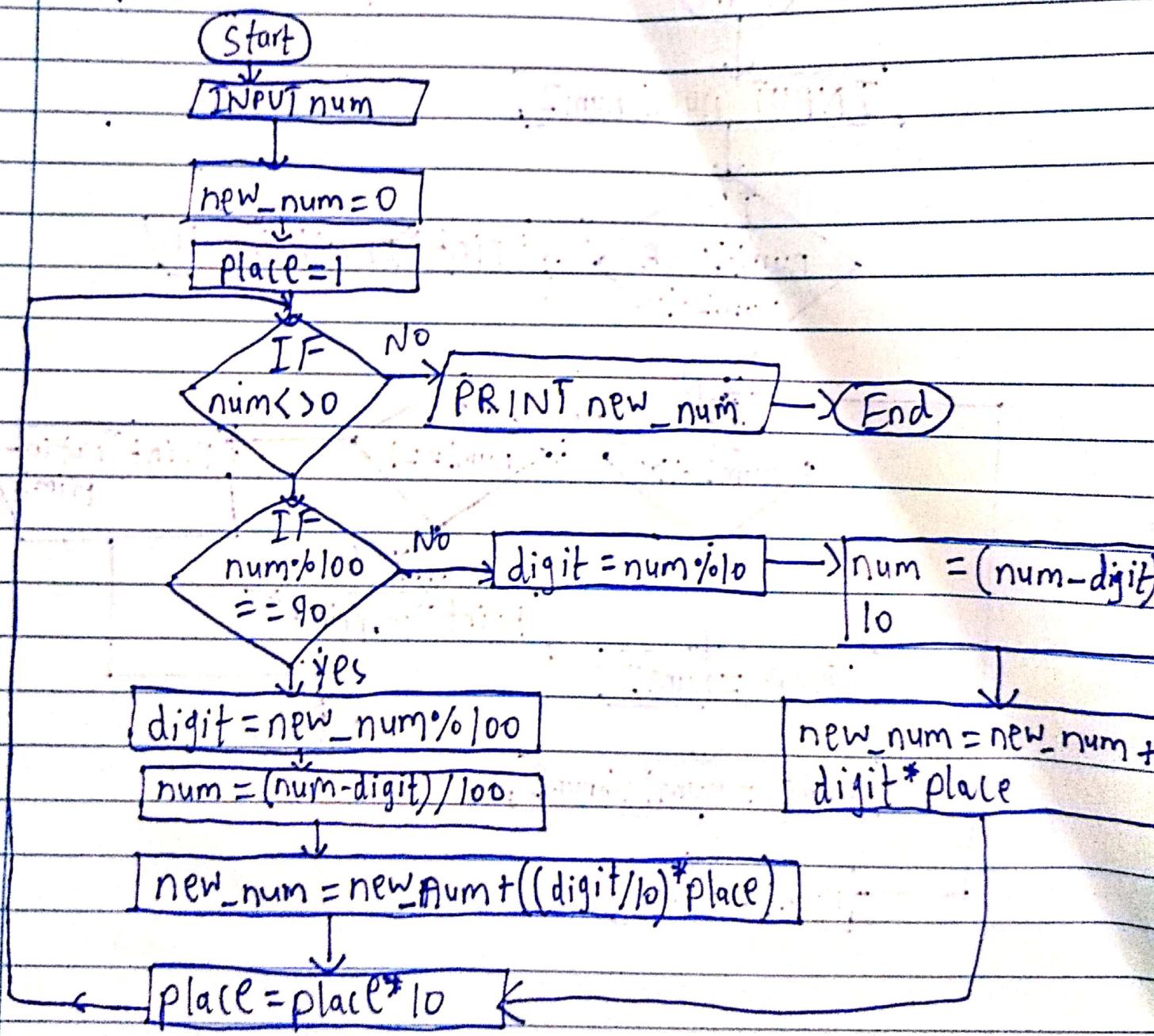


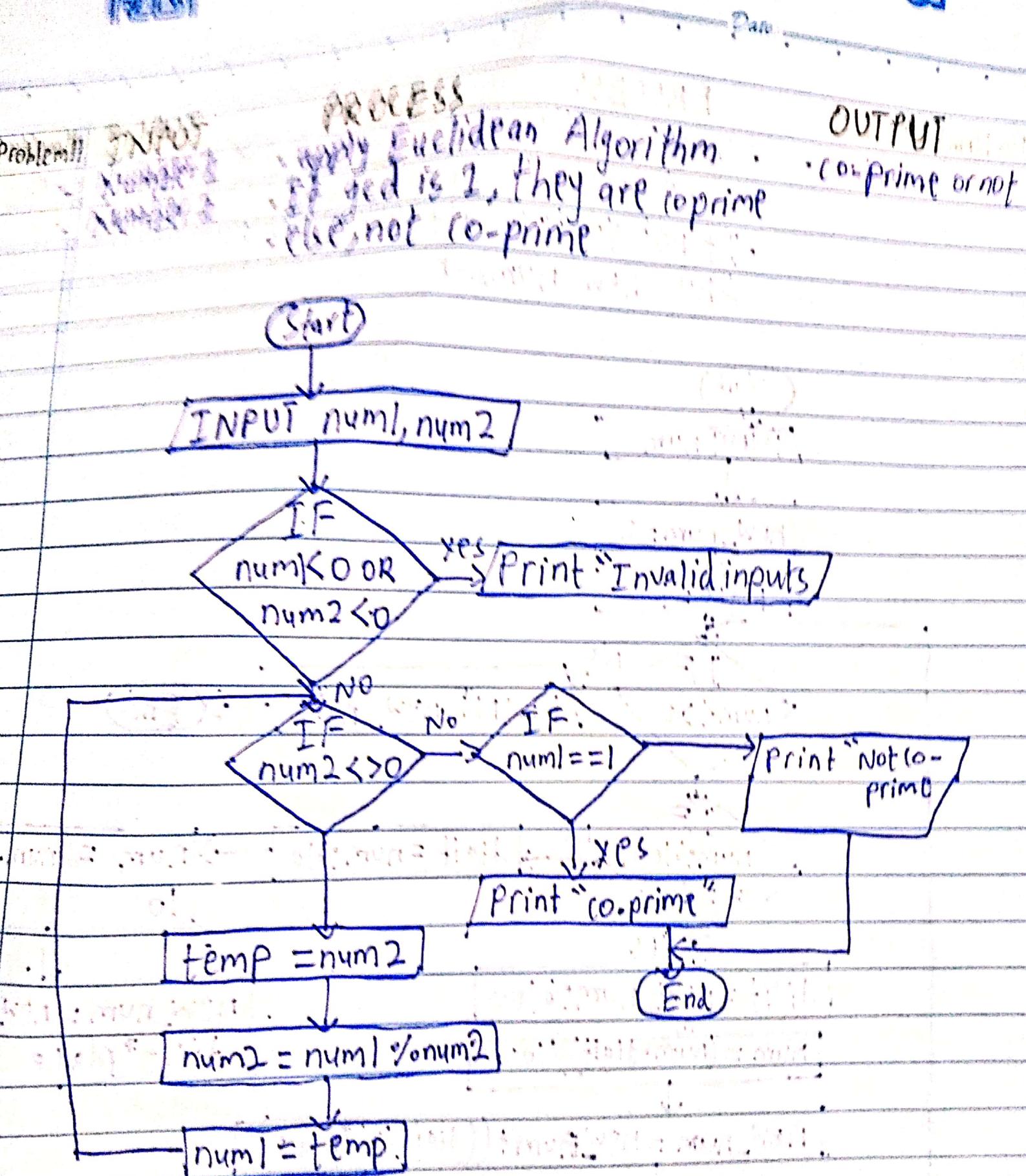
Problem b) INPUT

PROCESS

OUTPUT

- number
- check 2 digits, if go then remove 0 and add 9 to new number.
- If not go, just add the digit to the new number





## Problem 12 INPUT

## PROCESS

## OUTPUT

- Fill 5ltr jug
- empty in 3ltr jug
- Empty 3ltr jug
- put the left over water in 3ltr jug from 5ltr jug
- Fill 5ltr jug
- Empty 3ltr jug

(Start)

$$5\text{ltr} = 5$$

$$3\text{ltr} = 3$$

$$5\text{l-jug} = 0$$

$$3\text{l-jug} = 0$$

$$5\text{l-jug} = 5\text{ltr}$$

$$5\text{l-jug} = 5\text{l-jug} - 3\text{ltr}$$

$$3\text{l-jug} = 3\text{ltr}$$

$$3\text{l-jug} = \cancel{5}0$$

$$3\text{l-jug} = 5\text{l-jug}$$

$$5\text{l-jug} = 5\text{ltr}$$

$$5\text{l-jug} = 5\text{l-jug} - 1$$

$$3\text{l-jug} = 3\text{l-jug} + 1$$

(End)

