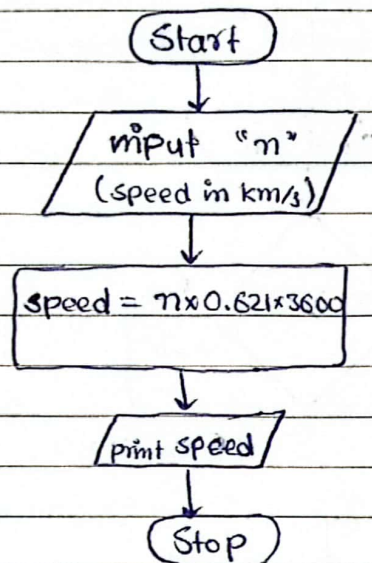


- 1) Design the flowchart to convert kilometers per seconds to miles per hour.



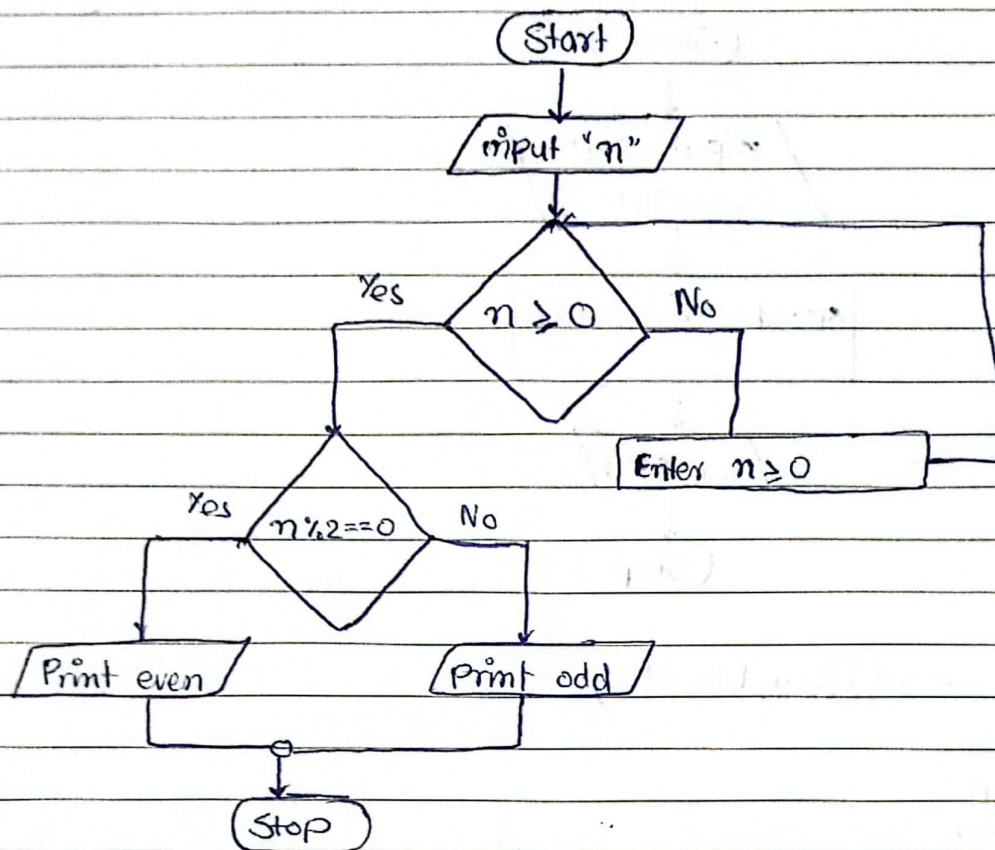
Pseudo code

1. Start
2. Input "n" (Speed in km/s)
3. Calculate speed  
 $speed = n \times 0.621 \times 3600$
4. print speed
5. Stop.

IPO

Input	Processing	Module Reference	Output
'n' (Speed in km/s)	Enter input 'n' Calc: speed $speed = n \times 0.621 \times 3600$ Print speed End	Read Calculate  Print PayRoll Control	speed in miles/h

2) Design a flowchart that will ask for a positive number greater than 0 and prints whether a number is even or odd



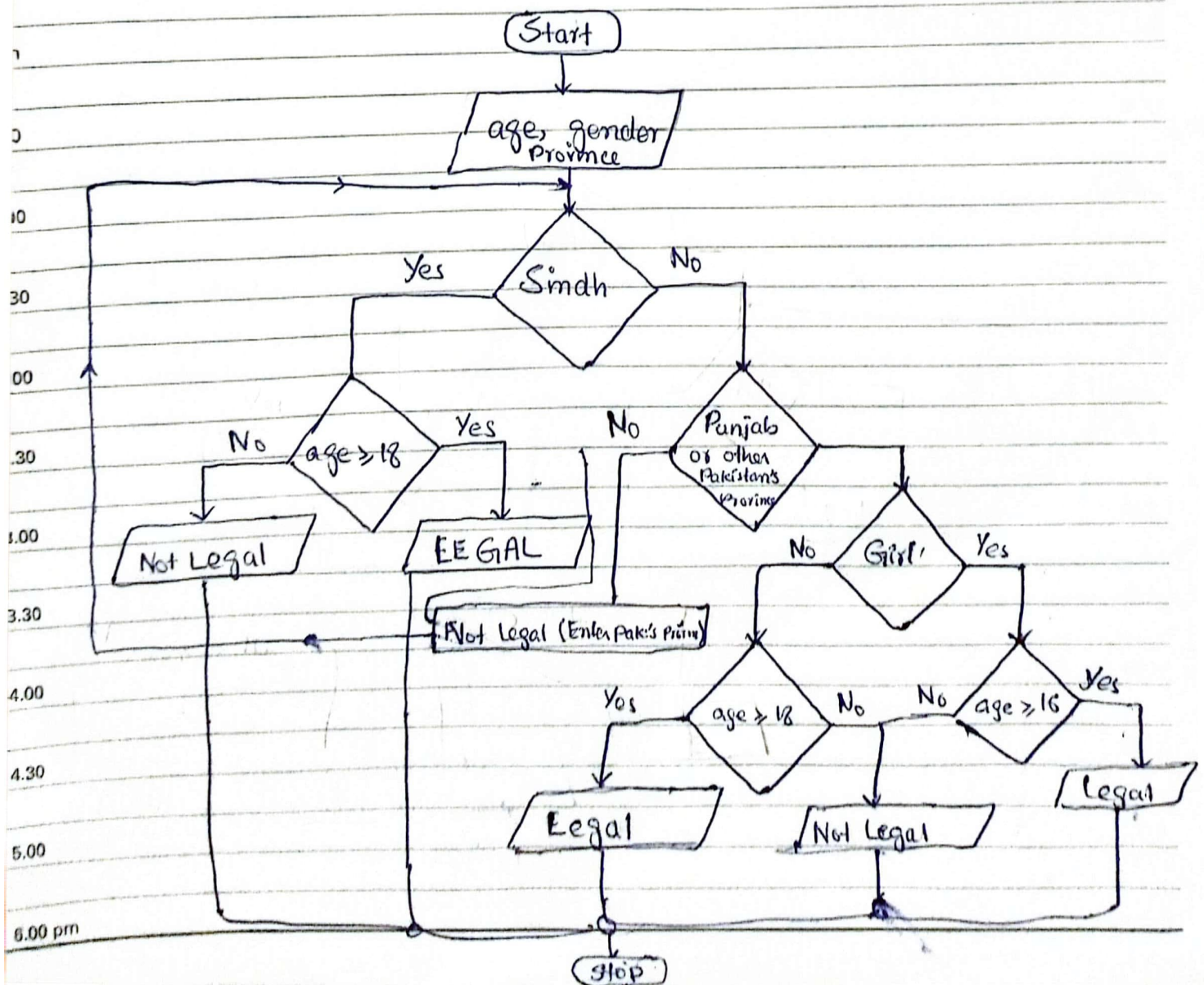
Pseudocode

1. Start
2. Input n
3. If  $n \geq 0$   
    If  $n \% 2 == 0$   
        Print even  
    Else  
        Print odd
4. Else  
    print " enter n >= 0"
5. Stop



Input	Processing	Module Reference	Output
1	Enter n	Read	
"n"	Check $n \% 2 == 0$	Check condition	even or
(number)	Check $n \% 2 \neq 0$	Check condition	odd
	Print result	Print	
	End	PayRoll Control	

Q3: Design a flowchart for both provinces (Sindh & Punjab) to make this decision easy by asking relevant information from the user and giving output whether it is legal to marry or not.



## Pseudocode

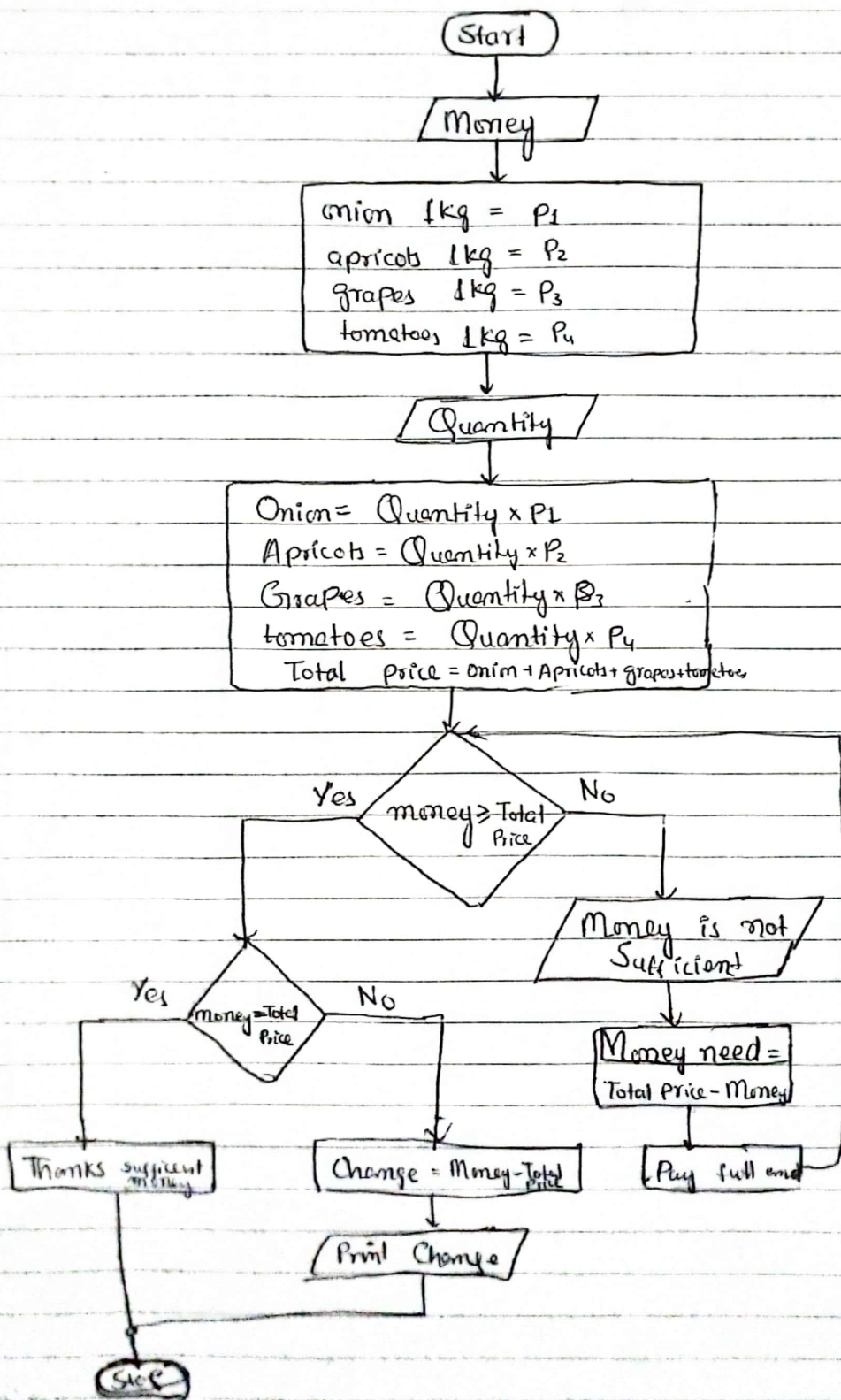
1. Start
2. Input age, gender, province
3. If Province is sindh
  - If age  $\geq 18$ 
    - Print legal
  - Else
    - Print Not legal
4. Else if
  - Province is Punjab & other
  - If Gist
    - If age  $\geq 18$ 
      - print legal
    - Else not legal
5. Else
  - If age  $\geq 18$ 
    - print Legal
  - Else
    - Print not legal
6. Else if
  - Print Not data found (Enter pakistan's Province)
7. Stop

## IPO

Input	Processing	Module Reference	Output
	Enter age	Read	
age	Enter Gender	Read	Legal &
Gender	Enter province	Read	Not Legal to
Province	Check province	<del>Calculate</del>	Marry
	Check age	Print	
	Check gender	PayRoll Control	
	Print output		
	Stop		



4) Design a flowchart to help Mr Bhoola in calculating money for shopping



## Pseudocode

1) Start

2. Input Money

3. Declare

onion 1kg =  $P_1$

apricots 1kg =  $P_2$

grapes 1kg =  $P_3$

tomatoes 1kg =  $P_4$

4. Input Quantity

5. Calculating price

Onion = Quantity  $\times P_1$

Apricots = Quantity  $\times P_2$

Grapes = Quantity  $\times P_3$

tomatoes = Quantity  $\times P_4$

6) Calculating total price

Total price = Onion + Apricots + Grapes + tomatoes

7. If

money  $\geq$  Total price

If

money == total price

Thanks you change is 0

Else

Change = Money - Total price

Print change

Else

Pay full money

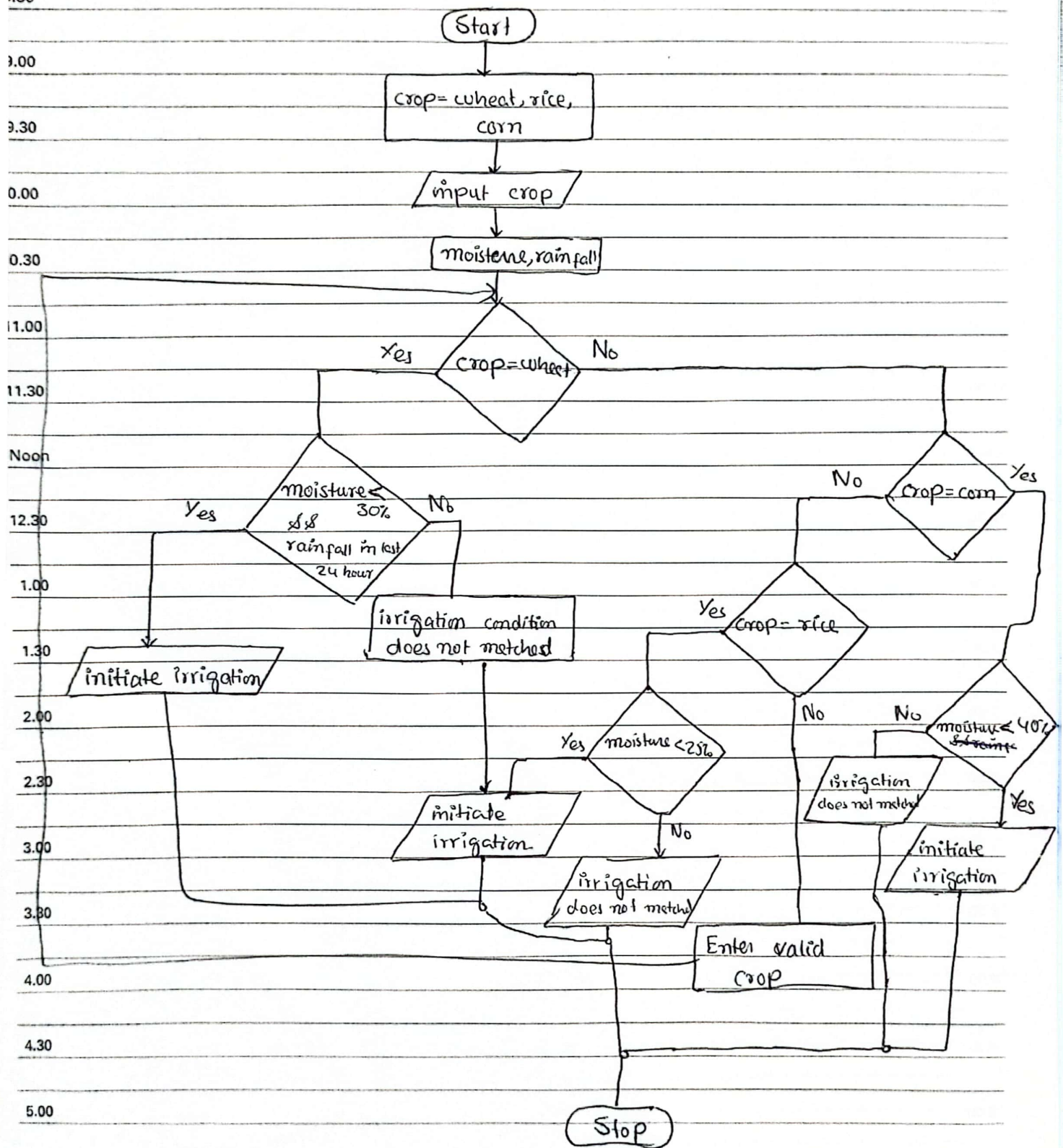
8. End

## IPO

Input	Processing	Module Reference	Output
Money	Enter money	Read	Change or eligibility of money to shopping
	Declaring variable		
	Enter Quantity	Read	
	Calculating price	Calculate	
	Calculating total price	Calculate	
	Condition of greater	Print 0 change	
	Condition of equal	Print x change	
	End	PayRoll Control	



## 5) Crop Management



8.00 am

## Pseudocode

8.30

1. Start

9.00

2. Initiate crop = wheat, rice, corn

3. Input crop

9.30

4. Initiate moisture, rainfall

5. If

10.00

crop = wheat

if moisture < 30% & rainfall in last 24 hours

10.30

initiate irrigation

6. Else if

11.00

crop = corn

moisture < 40%

11.30

initiate irrigation

7. Else if

Noon

crop = rice

moisture < 25%

12.30

initiate irrigation

8. Else

1.00

print "Irrigation condition does not matched"

9. End

1.30

## IPO

2.00

2.30

3.00

3.30

4.00

4.30

5.00

6.00 pm

Input	Processing	Module Reference	Output
crop	Enter crop	Read	Initiation of irrigation
	(crop = wheat, corn, rice)	Check if condition <sup>meets</sup>	
	Initiate moisture, rainfall	Print	
	Condition moisture, rainfall	Print	
	Condition moisture	Print	
	End	Pay Roll Control	