Problem 5: Crop Management

Start

Crop type
moisture
Rain

Crop type
moisture
rain (in 24 h)

For rainfall,
we use 1 and 0
if rain occurs → 1
if rain not occurs → 0

crop type = wheat — yes → moist <30° rain=0 — yes → irrigation

No

No → No need

No

Crop type = corn — yes → moist < ida — yes → irrigation

No

No → No need

No

crop type = rice — yes → moist rain <25 =0 % — yes → irrigation

No

No → No need

Invalid crop type
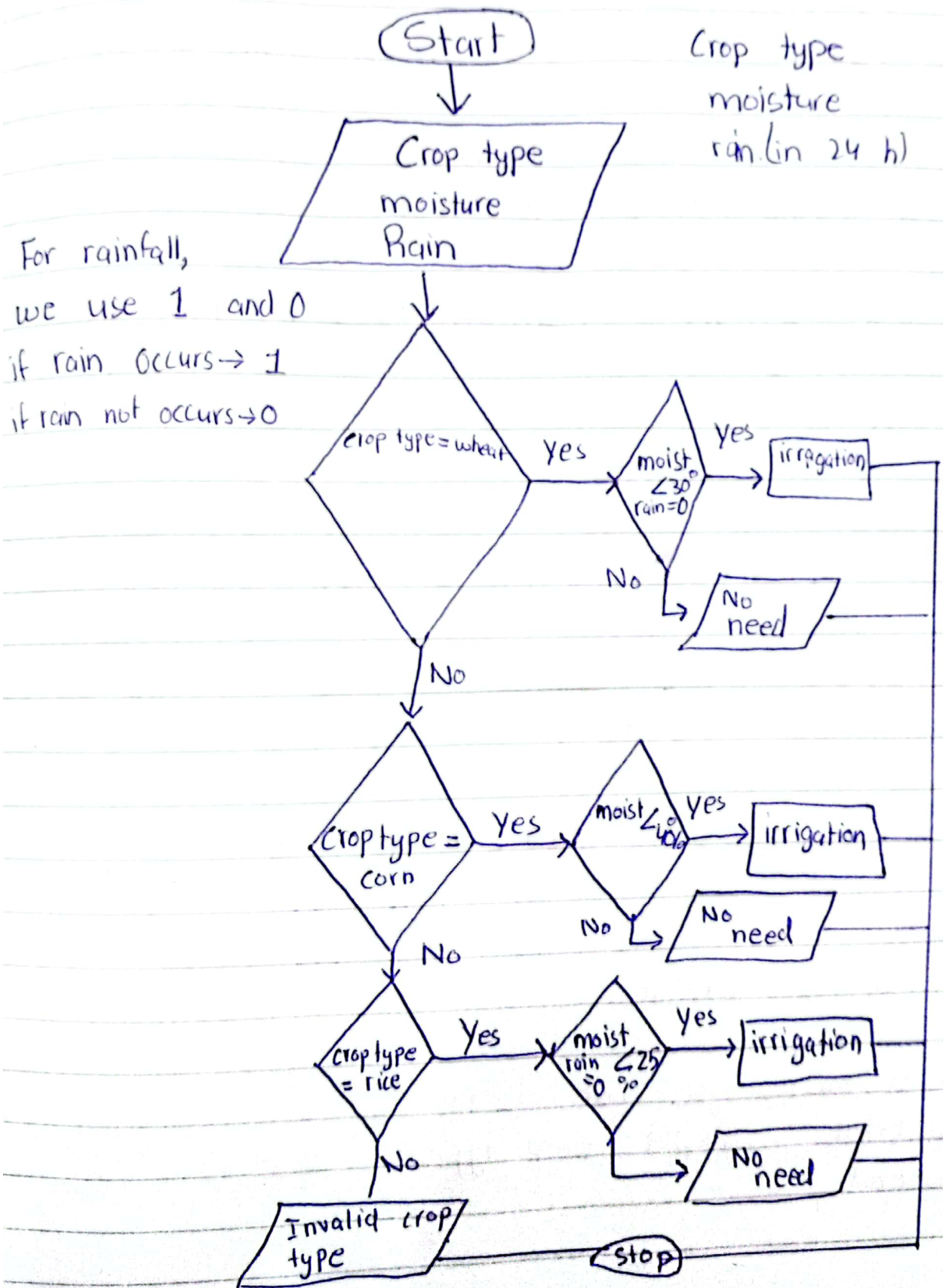
Stop

Pseudocode:

1. Start
2. Input crop type, moist, rain in 24 hours

   // if rain occurs, rain = 1
   // if rain not occurs, rain = 0

3. if (crop type = wheat, moist < 30%, rain = 0)
       irrigate
   else
       do not irrigate

4. if (crop type = corn, moist < 40%)
       irrigate
   else
       do not irrigate

5. if (crop type = rice, moist < 25%, rain = 0)
       irrigate
   else
       do not irrigate.

6. If crop type not defined
       Print "Invalid crop type"

7. End.

IPO

Input	Processing	Module Preference	Output
Crop type	• Input Crop type	Read	
Moist	• Input moist	Read	Chances for
Rainfall	• Input rainfall	Read	irrigation.
	• Calc: chances for irrigation	Calc	
	• Print "Chances for irrigation."	Print	
	• End	End	