# Problem 5: Crop management

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## IPO CHART:

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| **INPUT** | **PROCESS** | **OUTPUT** |
| Input crop type , moisture level  In percentage and rainfall | If crop type is wheat  and moisture is <30% and no rain in  24 hour THEN irrigation=yes  Else If crop type is corn and moisture is <40%  THEN irrigation =yes  Else If crop type is rice and moisture is <25%  and no rain in 24 hours THEN irrigation = yes  else irrigation =no | Print irrigation (yes no) |

## PSEUDOCODE:

1. BEGIN
2. INPUT crop\_type, soil\_moisture, rainfall\_status
3. IF crop\_type == "wheat" THEN
4. IF soil\_moisture < 30 && rainfall\_status == "no" THEN
5. OUTPUT "Irrigation: Yes"
6. ELSE
7. OUTPUT "Irrigation: No"
8. END IF
9. ELSE IF crop\_type == "corn" THEN
10. IF soil\_moisture < 40 THEN
11. OUTPUT "Irrigation: Yes"
12. ELSE
13. OUTPUT "Irrigation: No"
14. END IF
15. ELSE IF crop\_type == "rice" THEN
16. IF soil\_moisture < 25 && rainfall\_status == "no" THEN
17. OUTPUT "Irrigation: Yes"
18. ELSE
19. OUTPUT "Irrigation: No"
20. END IF
21. ELSE
22. OUTPUT "Invalid crop type"
23. END IF
24. END

## A diagram of a flowchart Description automatically generatedFLOW CHART: