

Problem #5

Pseudocode

Start

Declare crop, wheat, rice, corn, soil-moisture, rain-24hrs
as string

Output "Enter the name of crop"

Input crop

Output "Enter the percentage of soil moisture"

Input soil-moisture

Output "If rain has occurred in 24 hours"

Input rain-24hrs

if crop == wheat
then

if soil-moisture < 30 and rain-24hrs != Yes
then

Output "Initiate irrigation"

Else

Output "No need for irrigation"

Else if crop == rice
then

if soil-moisture < 25 and rain-24hrs != Yes
then

Output "Initiate irrigation"

else

Output "No need for irrigation"

Else if crop == corn
then

if soil-moisture < 40
then

Output "initiate irrigation"

Else

Output "No need of irrigation"

Else

Output "Invalid crop"

END if

End

Input	Process	Module/Action	Output
Enter name of crop, soil moisture, rain 24 hrs	Enter name of crop Enter soil moisture Enter rain-24 hrs if crop == wheat check soil moisture < 30 and rain-24 hrs != Yes	Read Read Read calc	initiate irrigation.
	if crop == rice check soil moisture < 25 and rain 24 hrs != Yes	calc	
	if crop == corn	calc	

check soil moisture < 40

if conditions met

calc

then print initiate

irrigation

otherwise

no need of
irrigation

Flowchart

Date:



