

LAB TEST – SEPTEMBER 2023

You are a software developer working on a project to create a "Crop Harvest Advisory System" for farmers. The system is designed to help farmers make informed decisions about when to harvest their crops based on their estimated growth periods.

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Crop Harvest Advisory System
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Please enter the crop name: Apple
Please enter the crop's estimated growth period in days: 90
Crop Name: Apple
Estimated Growth Period: 90 days
The best time for harvest is within the next month.

Please enter another crop's name or Exit to end the program: Banana
Please enter the crop's estimated growth period in days: 150
Crop Name: Banana
Estimated Growth Period: 150 days
Your crop is a long-term crop. Harvesting time can vary based on factors like weather, soil condition, and crop variety.
Is the weather forecast favorable for your crop? [Y/N] : N
Consider consulting with local agricultural experts for advice on managing your long-term crop.

Please enter another crop's name or Exit to end the program: Exit

Thank you for using the Crop Harvest Advisory System.
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1. The program should ask the crop's name and estimated growth period in days to the user. It will display the name of the crop and the estimated growth period.
2. The program should provide recommendations based on the growth period as follows:
 - If the growth period is 30 days or less, it will show a message 'It's recommended to harvest your crop in the next week.'
 - Alternatively, if the growth period is between 31 and 60 days, it will show a message 'You can start preparing for the harvest within the next two weeks.'
 - Otherwise, if the growth period is between 61 and 90 days, it will display 'The best time for harvest is within the next month.'
3. If the growth period is more than 90 days, the program should provide advice for long-term crops. The program will show a message 'Your crop is a long-term crop. Harvesting time can vary based on factors like weather, soil condition, and crop variety.'. After that, the program:
 - will ask the user 'Is the weather forecast favorable for your crop? [Y/N] :'
 - If the user enters 'Y', it will show a message 'You should start monitoring your crop's condition and be prepared for harvesting when it's ready.'
 - If the user enters 'N', it will display 'Consider consulting with local agricultural experts for advice on managing your long-term crop.'
 - If the user enters besides either 'Y' or 'N', the program will display 'WRONG INPUT... Please answer again. Is the weather forecast favorable for your crop? [Y/N] :' again until the user enters the correct input.

Next page

4. After that, the program will ask the user to enter another crop's name or 'Exit' to end the program. If user enters anything besides 'Exit', the program will continue with asking the next crop's estimated growth period in days.

NOTE: 1. DO NOT USE FUNCTION. 2. YOU ARE REQUIRED TO REFER TO THE SAMPLE MESSAGE AND INTERFACE TO DESIGN YOUR PRINT AND INSTRUCTIONS.

SUBMISSION IN PDF AND NOTEPAD(WINDOWS) OR TEXTEDIT(MAC) TEXTFILE (.TXT) FORMAT. PUT YOUR FULL NAME, ID AND LAB GROUP (*E.G. Ali_22011234_ES6A*) AS THE FILE NAME. SUBMISSION MUST CONTAIN FULL CODE, AND THREE (3) SAMPLE OUTPUTS. TEXTFILE (.TXT) MUST CONTAIN FULL CODE.

- END OF QUESTION -