

FARMER'S

FRIEND)



CONTRIBUTED BY

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PROBLEM STATEMENT

ASSISTING THE FARMER IN FINDING
THE SUITABLE CROP GIVEN THE
PREFERRED CONDITION



MOTIVATION

THE SELECTION OF CROPS CAN BE A BIT CHAOTIC FOR SOME FARMERS. HENCE WE PRESENT YOU THE FARMER'S FRIEND THAT WILL ASSIST HIM MAXIMIZING HIS YIELD BY SELECTING THE BEST SUITABLE CROP.



TENTATIVE SOLUTION

We have stored information about various crops with their respective Soil type, Season and crop type i.e. Cash or food. First of all the user will enter details as per his preferred conditions mentioned above. Then we will take out the intersection of the crops estimated from each set of information resulting to the most compatible crop.



The overall representation of the code goes below:

- 1. Storing the crops with the help of 2-D array.
- 2. Using it's index for the indentification of crops to perform further required operations.
- 3. Storing all the crops(by their indexes) manually by making respective new arrays for each specifications soil type, season and crop type.



The overall representation of the code goes below:

- 4. Take inputs of soil type, season and crop type by user.
- 5. Select the right array by if-else-if-else/switch statement for all 3 inputs.
 - 6. Take out the intersection of those 3 arrays and store the result in a new array.



The overall representation of the code goes below:

- 7. If the intersection is not-null, Convert the indexes to crops and display them on screen.
 - 8. If the intersection is null, Ask user to compromise and drop one of the input.
- 9. Repeat the whole process using those two inputs.

RESULT

As you have seen above, We asked farmer about his preferred preferences in terms of Crop-type, Soil-type and Season and based on his preferences, We suggest him the best suitable crop to grow, to maximize his yield. If in case he is getting a null value, We suggest him to drop one of three parameters and based on that, we again come up with the best suitable solution for him.





We are here presenting you with an interesting program which is very

beneficial to today's farming. Sometimes farmers get a bit confused to choose which crop is best suitable for their conditions such as weather and soil type.



So, "Farmer's friend" is here to help farmers in choosing the best suitable crop for his conditions. The program has a simple interface and takes information on three critical parameters—weather, soil type and crop type from the farmer according to his priorities and provides information about the

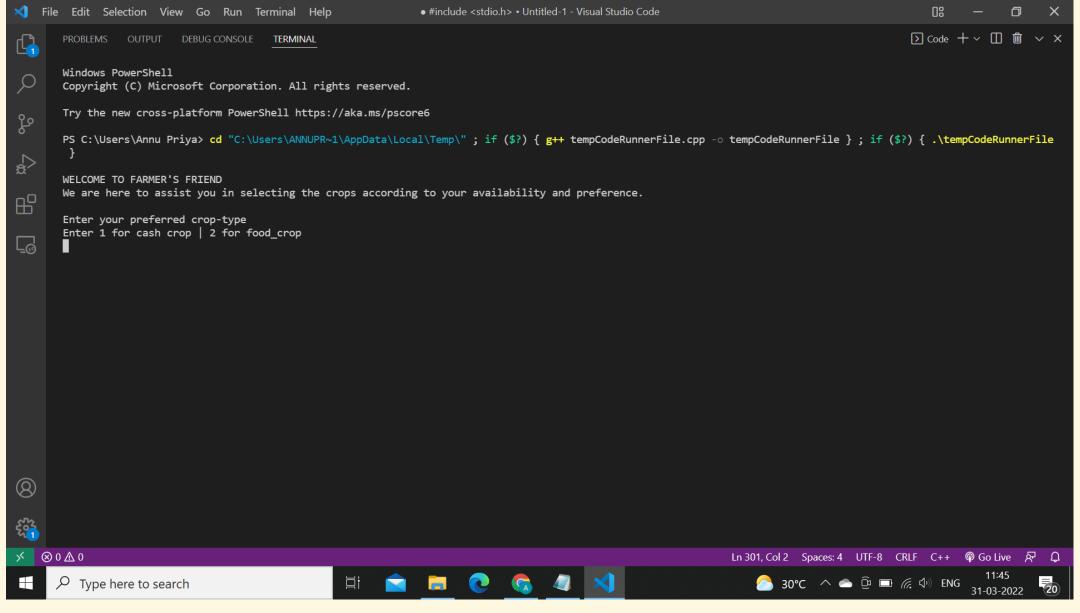
best suitable crop to his priorities.

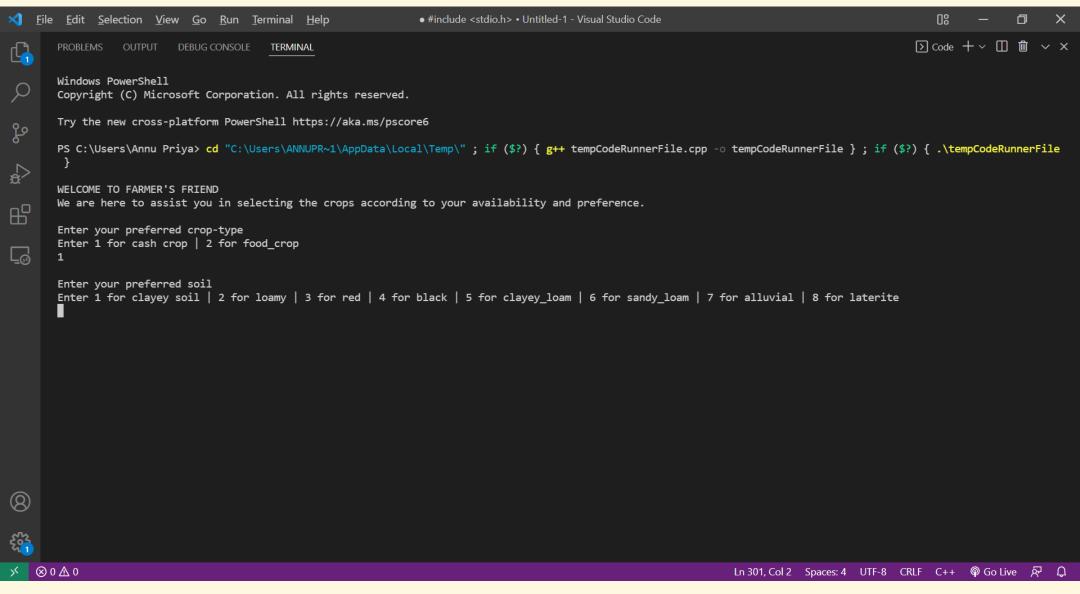


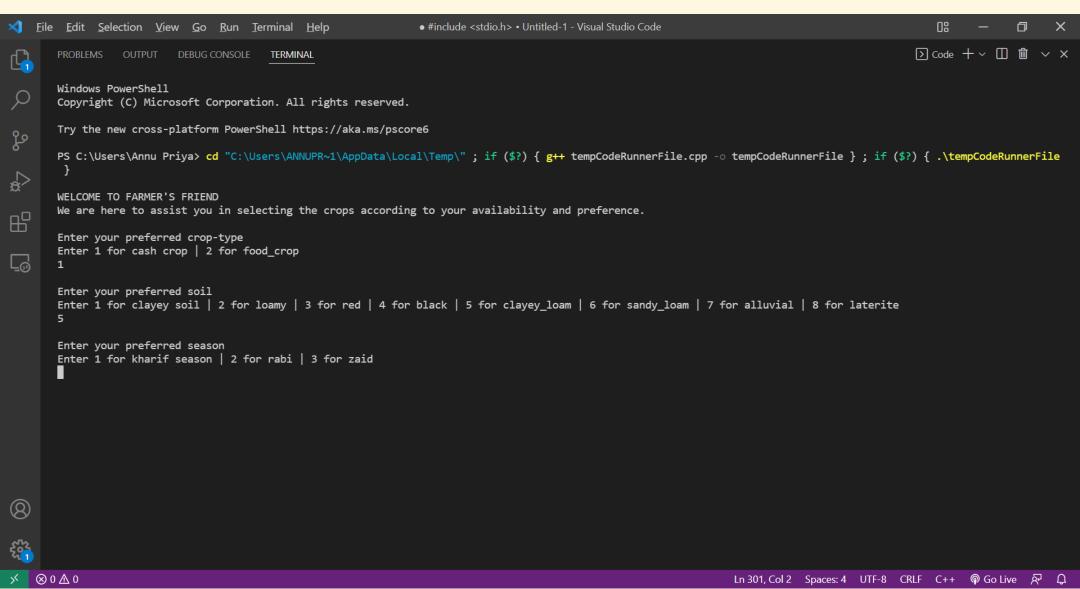


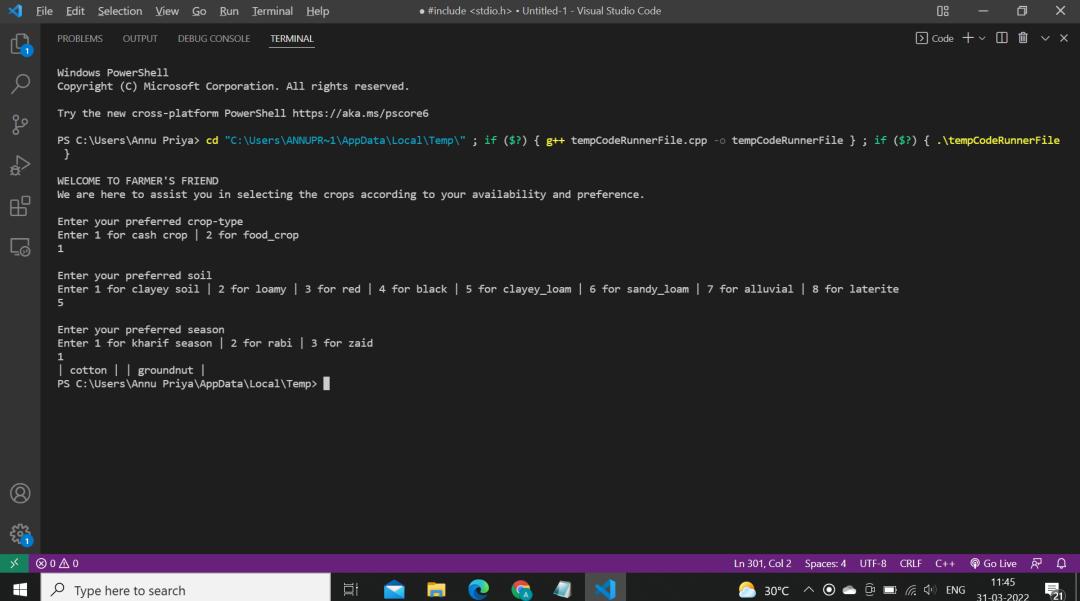
APPENDIX

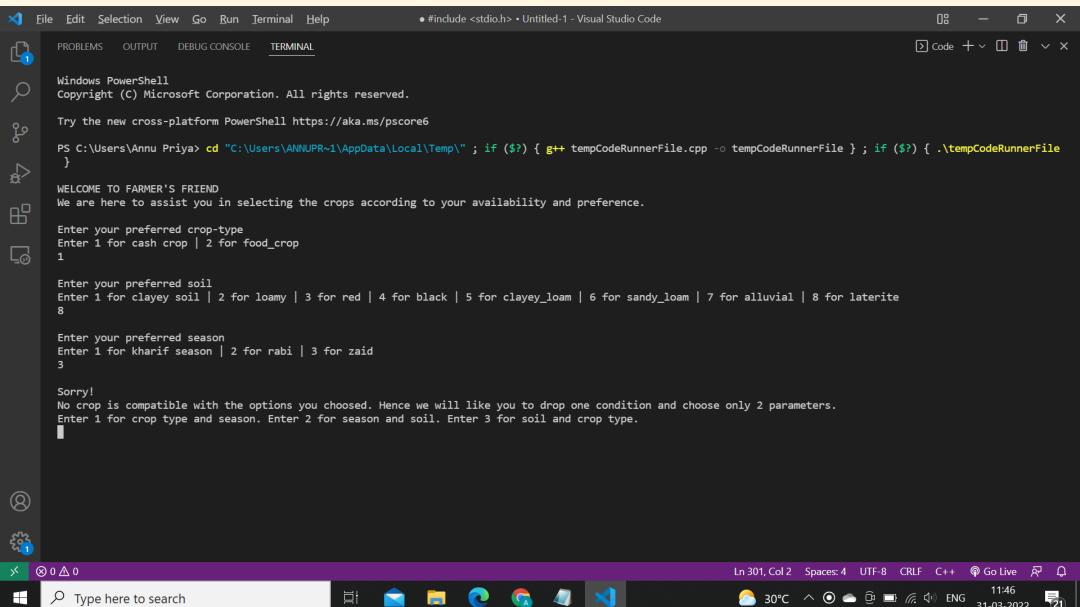








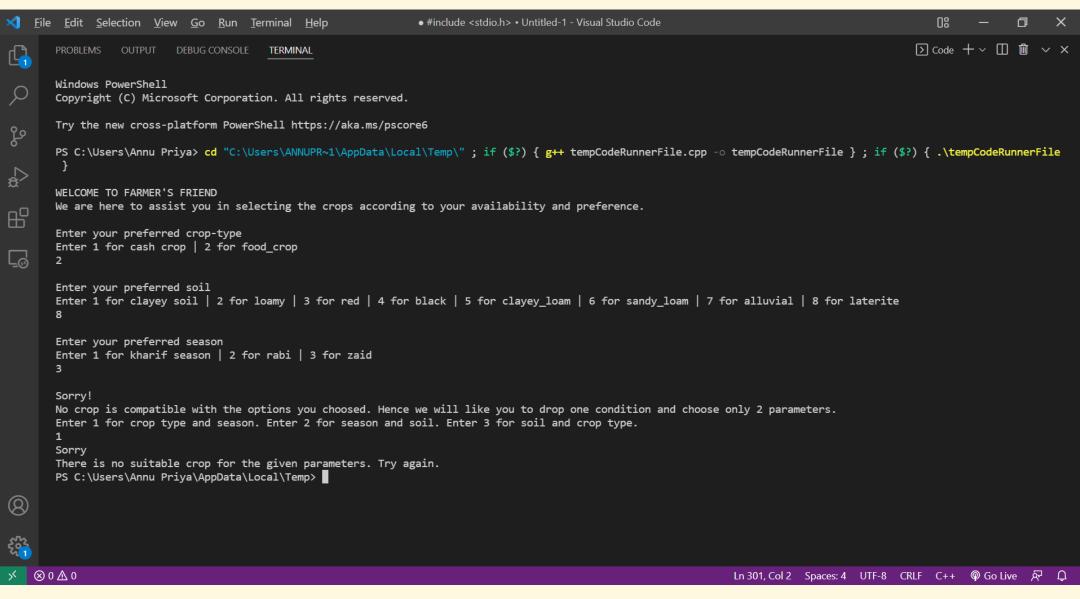


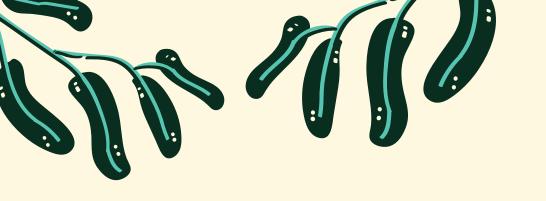


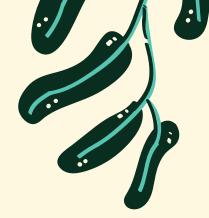
★ File Edit Selection View Go Run Terminal Help • #include <stdio.h> • Untitled-1 - Visual Studio Code PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved. Try the new cross-platform PowerShell https://aka.ms/pscore6 PS C:\Users\Annu Priya> cd "C:\Users\ANNUPR~1\AppData\Local\Temp\" ; if (\$?) { g++ tempCodeRunnerFile .cpp -o tempCodeRunnerFile } ; if (\$?) { .\tempCodeRunnerFile **₽** WELCOME TO FARMER'S FRIEND We are here to assist you in selecting the crops according to your availability and preference. Enter your preferred crop-type Enter 1 for cash crop | 2 for food_crop Enter your preferred soil Enter 1 for clayey soil | 2 for loamy | 3 for red | 4 for black | 5 for clayey_loam | 6 for sandy_loam | 7 for alluvial | 8 for laterite Enter your preferred season Enter 1 for kharif season | 2 for rabi | 3 for zaid 3 Sorry! No crop is compatible with the options you choosed. Hence we will like you to drop one condition and choose only 2 parameters. Enter 1 for crop type and season. Enter 2 for season and soil. Enter 3 for soil and crop type. | tobacco-biddi | | tobacco-hookah | PS C:\Users\Annu Priya\AppData\Local\Temp>

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Thank You!

