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Prof. Raupah

CS-118

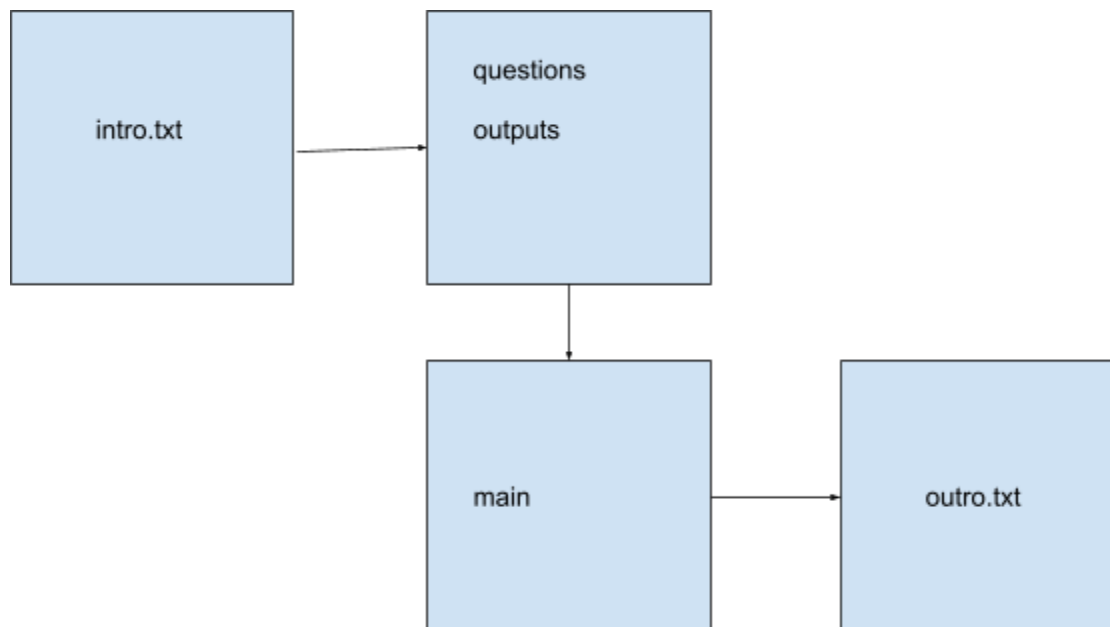
13 December 2024

LAB REPORT

Planning and organization:

- 1.) My program addresses the need to ensure that by 2030, the world's population will be well-equipped with safe and reliable cooking systems. According to the United Nations, 1 in 4 people will use unsafe and inefficient cooking systems by 2030(Goal 7, 2024).
- 2.) My program's scope is anyone who has the internet and wants to take the quiz to better help them decide if they need to update their cooking system.
- 3.) First I will create the main program which contains the questions and then I will add the answers to better help the user find out what to do to correct their cooking systems. Next, I created the bar graph which tracks how many pounds of carbon their cooking system emits per year. The y-axis goes up in .5 pounds of carbon dioxide emitted whereas the x-axis tracks what question they answered. If the bar does not increase, the user has answered the question correctly. Lastly, I added sounds that play after the user correctly answers a question.

Abdullah- Everything
Flowchart:



Development process:

First I will create the main program which contains the questions and then I will add the answers to better help the user find out what to do to correct their cooking systems. Next, I created the bar graph which tracks how many pounds of carbon their cooking system emits per year. The y-axis goes up in .5 pounds of carbon dioxide emitted whereas the x-axis tracks what question they answered. If the bar does not increase, the user has responded to the question correctly. Lastly, I added sounds that play after the user correctly answers a question.

Product: Copy and paste the blue link into a browser

https://drive.google.com/file/d/1MKt5nqvEtwrwiVH5lRtNajW58K_Xdj_t/view?usp=drive_link

Pitfalls:

For the most part, the final project was simple however the logic of creating the file output branches was a little tricky getting the registers in the correct place. I overcame this by writing it out as pseudocode to better see what I was trying to do and whether or not the code aligned with that. Making the line graph for each of the responses was difficult because having to figure out when it should or shouldn't move and how to draw it on the graph required some trial and error. The type of graph I wanted to do was also difficult as I did not have any help with the creation of a line graph to track the user's total while they were answering questions. However I overcame this by creating a simple bar graph instead.

Possible improvements:

- 1.) We could have made the questionnaire into a function that returned the result in \$v0.
- 2.) To improve teamwork I could have had some help..
- 3.) This assignment could be done without a lab report as it feels redundant to write up what I did when I can show or tell you what I did.
- 4.) Also, I could have created some functions to carry out the repetitive tasks such as the bar creation or music playing instead of copy-pasting the code and changing maybe one or two numbers.

Work Cited

“Goal 7 | Department of Economic and Social Affairs.” *United Nations*, United Nations, sdgs.un.org/goals/goal7. Accessed 25 Nov. 2024.