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Calculate Your Electricity Bill By

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CS141

An Introduction to Programming for Engineers

For
Dr. Ahmed ElHayek

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- Abstract

The main idea of our program is to ask the user to enter the power in hour per day, then the program will calculate the electricity bill and display the devices that use the most power.

- Introduction:

If you have a problem with calculate your electricity bill, or you want to know which device uses the most electricity you can use our program, also it will tell you which device is using the most electricity, then it will display it in easy way to understand it.

Our Graphical User Interface

Our Graphical User Interface has three tabs that give a nice user interface.

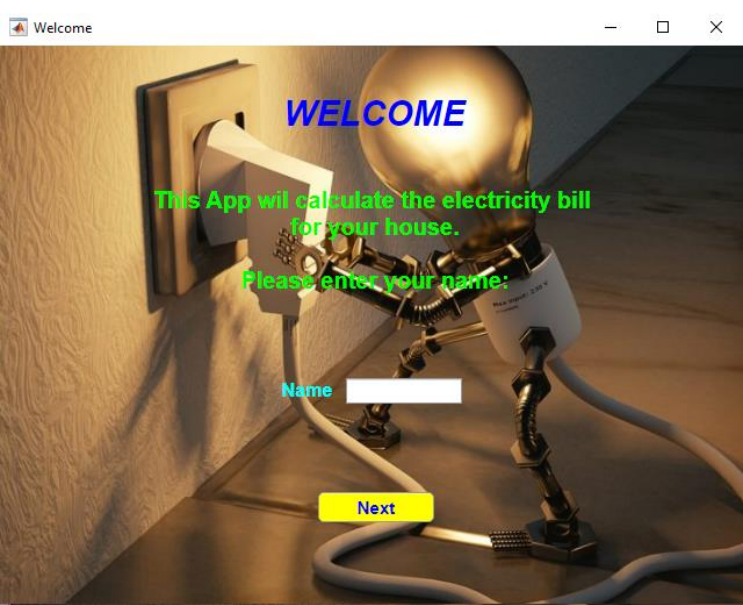


Figure1

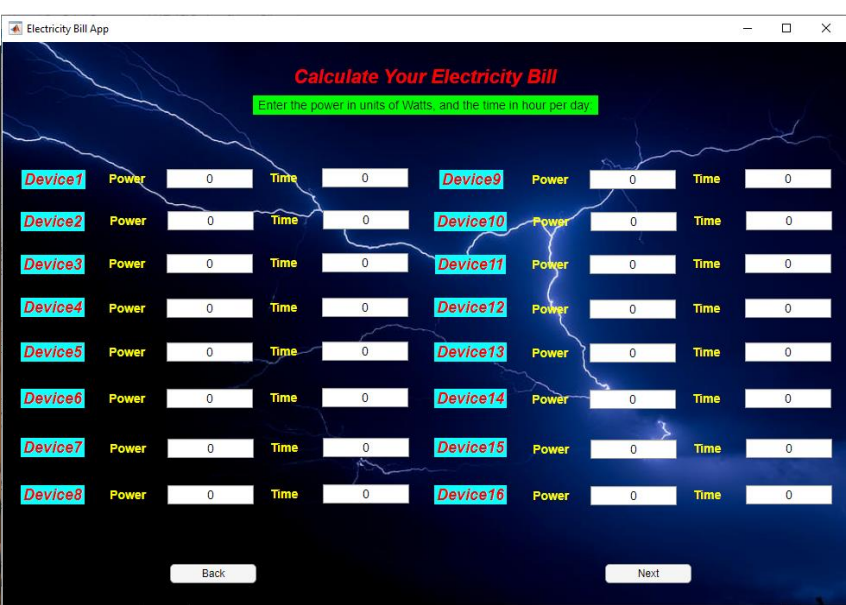


Figure2

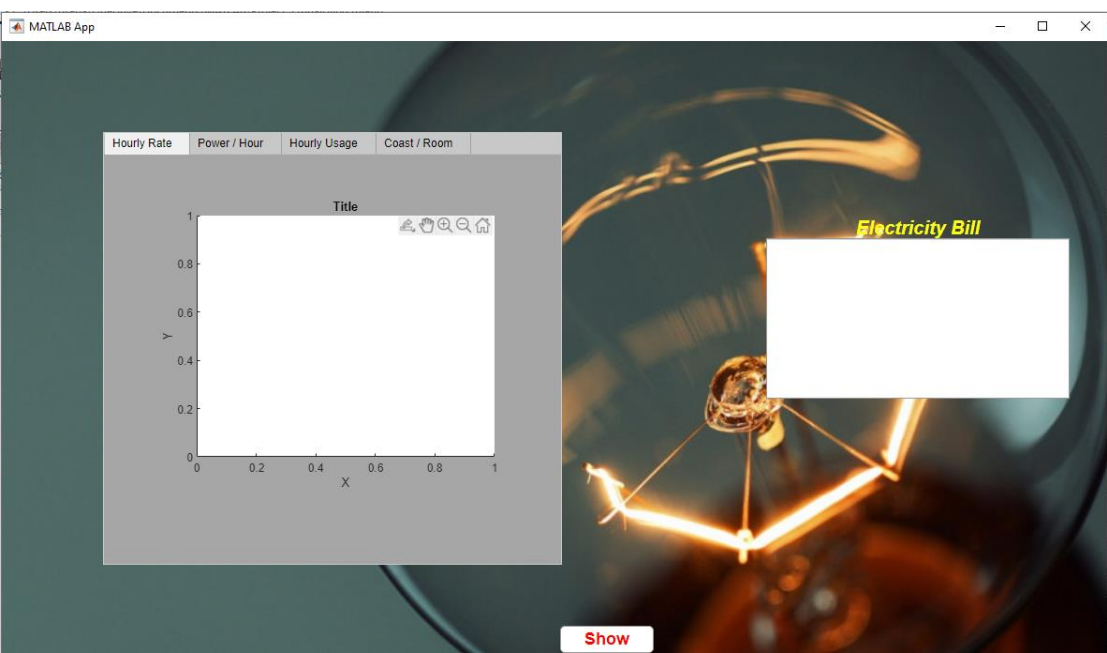


Figure3

ABOUT THE CODE

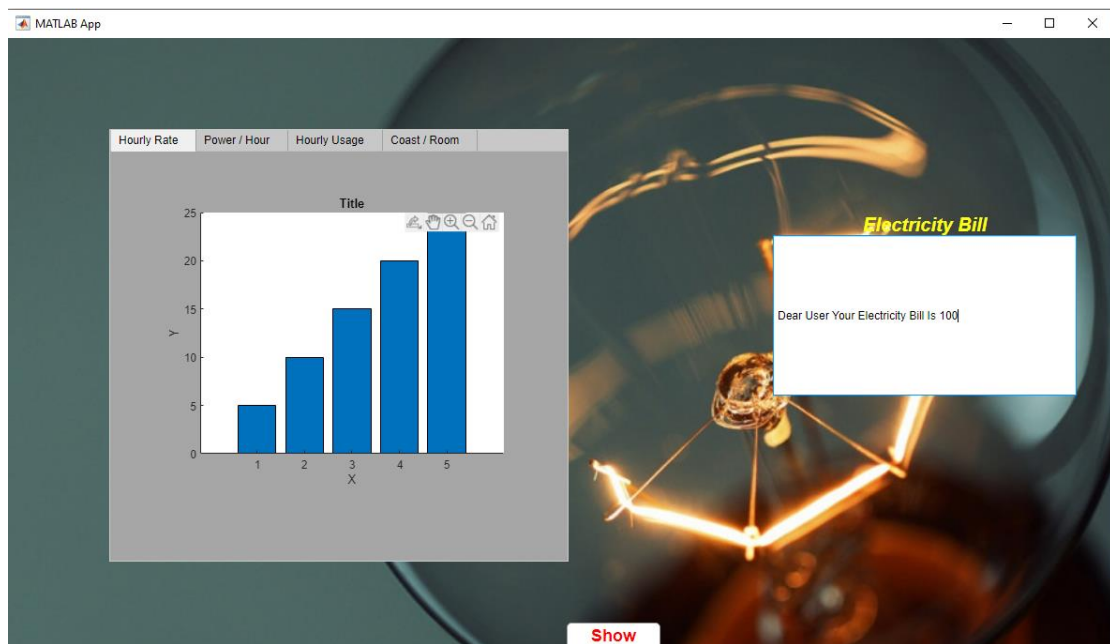
We used codes to calculate the electricity bill for the user that allow him to enter the amount of power and the time that he use of this device and the program will calculate the electricity bill by using this formula:

$\text{Power} * \text{Time} * 0.18$, where 0.18 is the price of the Electricity Hour.

In addition to that, we used the plotting codes to let to the user to see the rate of use and the device that that consumes the most energy.

WHAT ARE THE OUTPUTS

Our program will display the electricity bill and it will display which device is using the most electricity.



This Type of Example of The Output.

Note: The program is under enhance, so this is not the final thing.

CONCLUSION

In this program, our aim is to help people to know their electricity bill, and we focused on showing which device is using the electricity mostly, so the user can reduce the average time of using this device.

WORK DISTRIBUTION

In this program we divided the work as follows:

1-Introduction and user interface:

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2-calculation:

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3-The output:

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