

Assembly Assignment

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I. ABSTRACT

The Karnaugh map represents a logic function f. The minimal sum-of-products expression for f is derived by identifying the prime implicants and essential prime implicants in the Karnaugh map. The resulting expression is a simplified representation of the logic function, minimizing the number of literals and logic gates required for implementation.

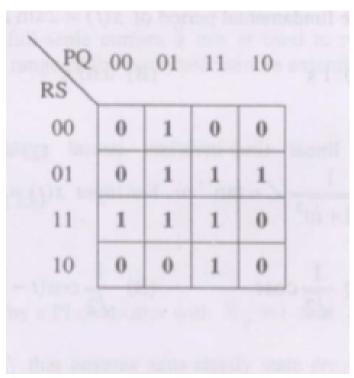


Fig. 1.

II. COMPONENTS

The required components list is given in Table:I.,

components	value	quality
Led's		4
Arduino	UNO	1
jumperwires		50
Breadboard		1

TABLE I

III. PROCEDURE

- 1) Connect the Led's to the Arduino uno.
- 2) Give the inputs manually using jumper wires.
- 3) connect the Arduino using USB device.
- 4) Execute the arduino code in nvim editor using avra filename.tex command.
- 5) After upload the code into hardware setup using arduino IDE platform.

IV. RESULTS

- 1) Download the code given in the link below and execute them to see the output as shown in Fig.3.
- 2) https://github.com/Akhilathalla/Akhila/blob/main/assembly/hello.asm

V. CONCLUSION

Hence implementation of assembly using LED's is done and verified through truth table.

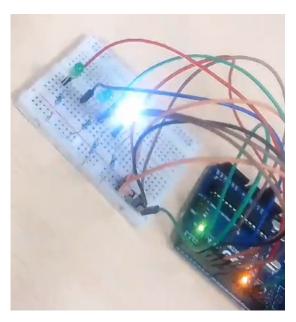


Fig. 2.