

Cub LED

Autor

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Introducere

Realizarea unui cub de dimensiune 4x4x4 format din LED-uri care va prezenta anumite animatii.

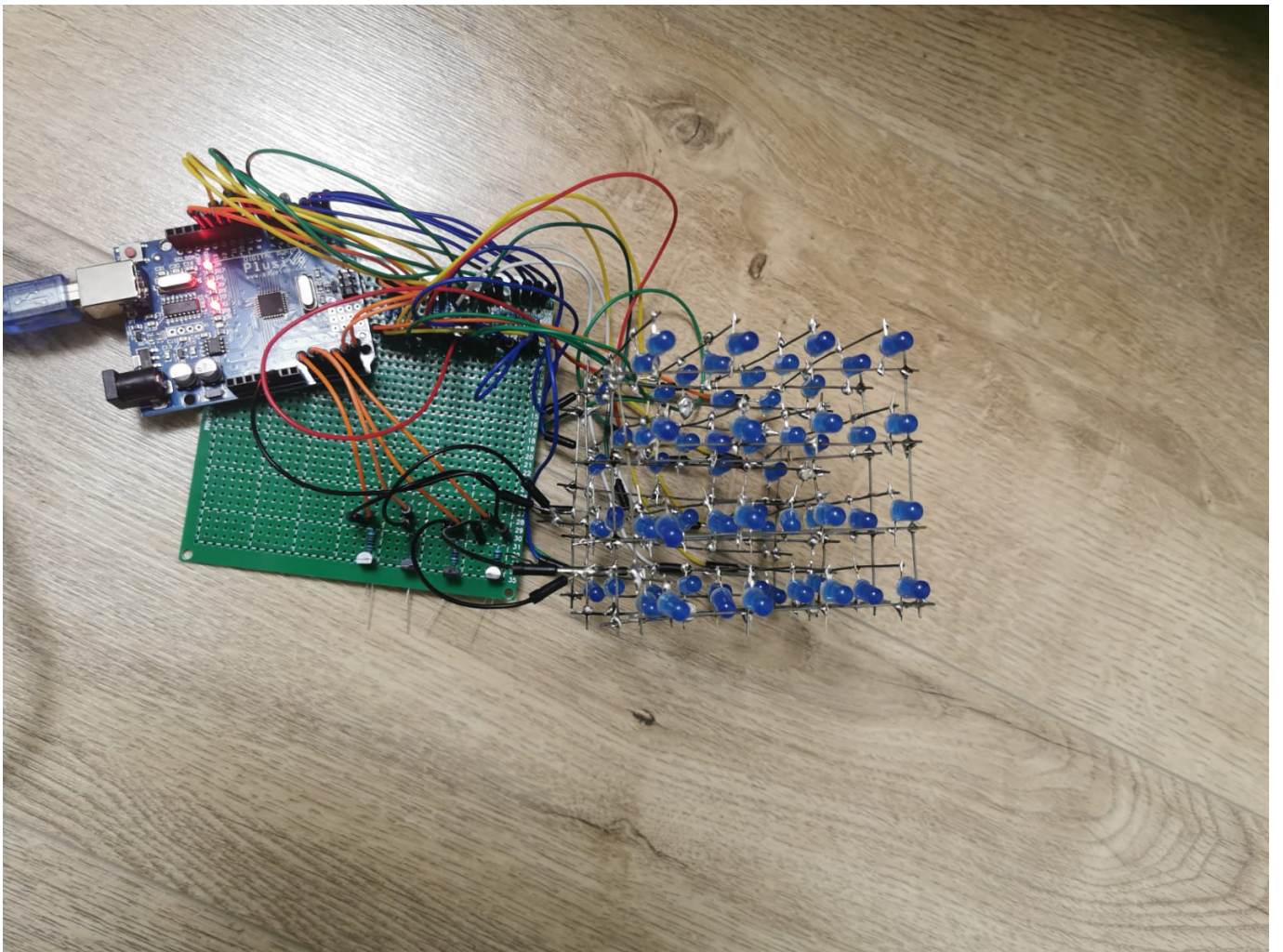
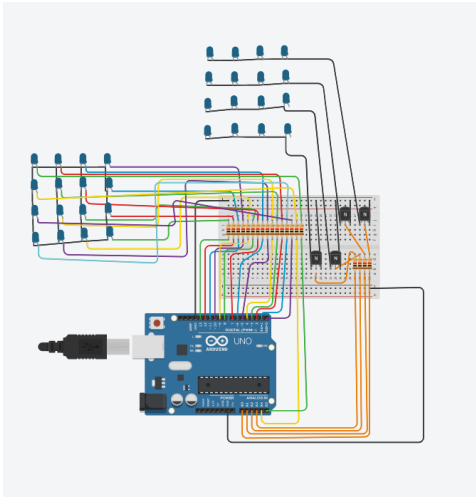
Descriere generala

Vor fi prezente 7 efecte: cub complet aprins, aprinderea si stingerea cubului cu efect de "clipit", aprinderea fetelor de sus in jos, aprindere fetelor de jos in sus, aprinderea fetelor de la stanga la dreapta, aprinderea fetelor din fata in spate si aprinderea treptata a cubului incepand din coltul din stanga jos si ajungand la final intreg cubul aprins.

Hardware Design

Lista de piese

- Arduino UNO
- 64 LED-uri
- 4 tranzistoare NPN
- 4 rezistente 1k
- 16 rezistente 330
- fire

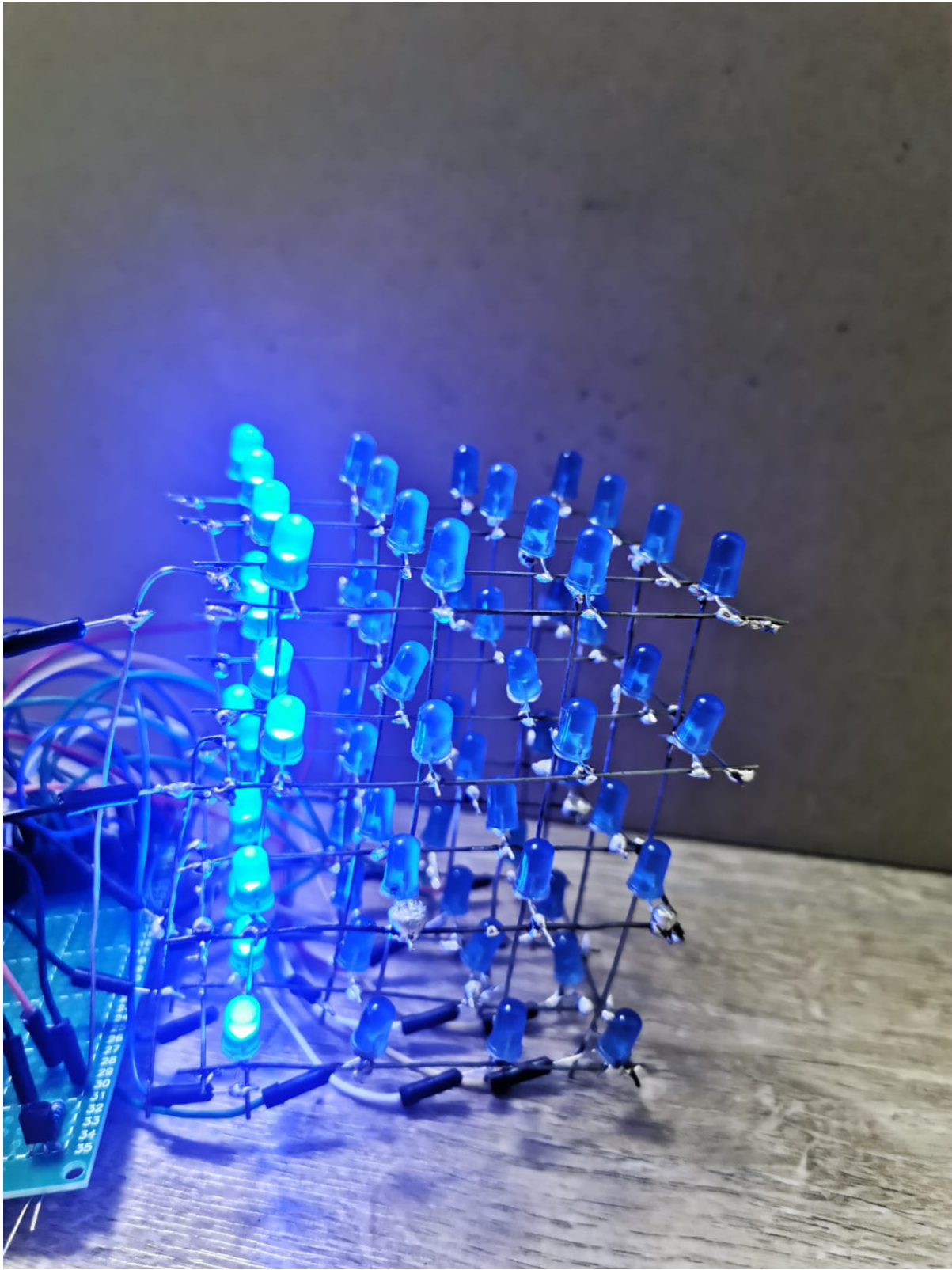


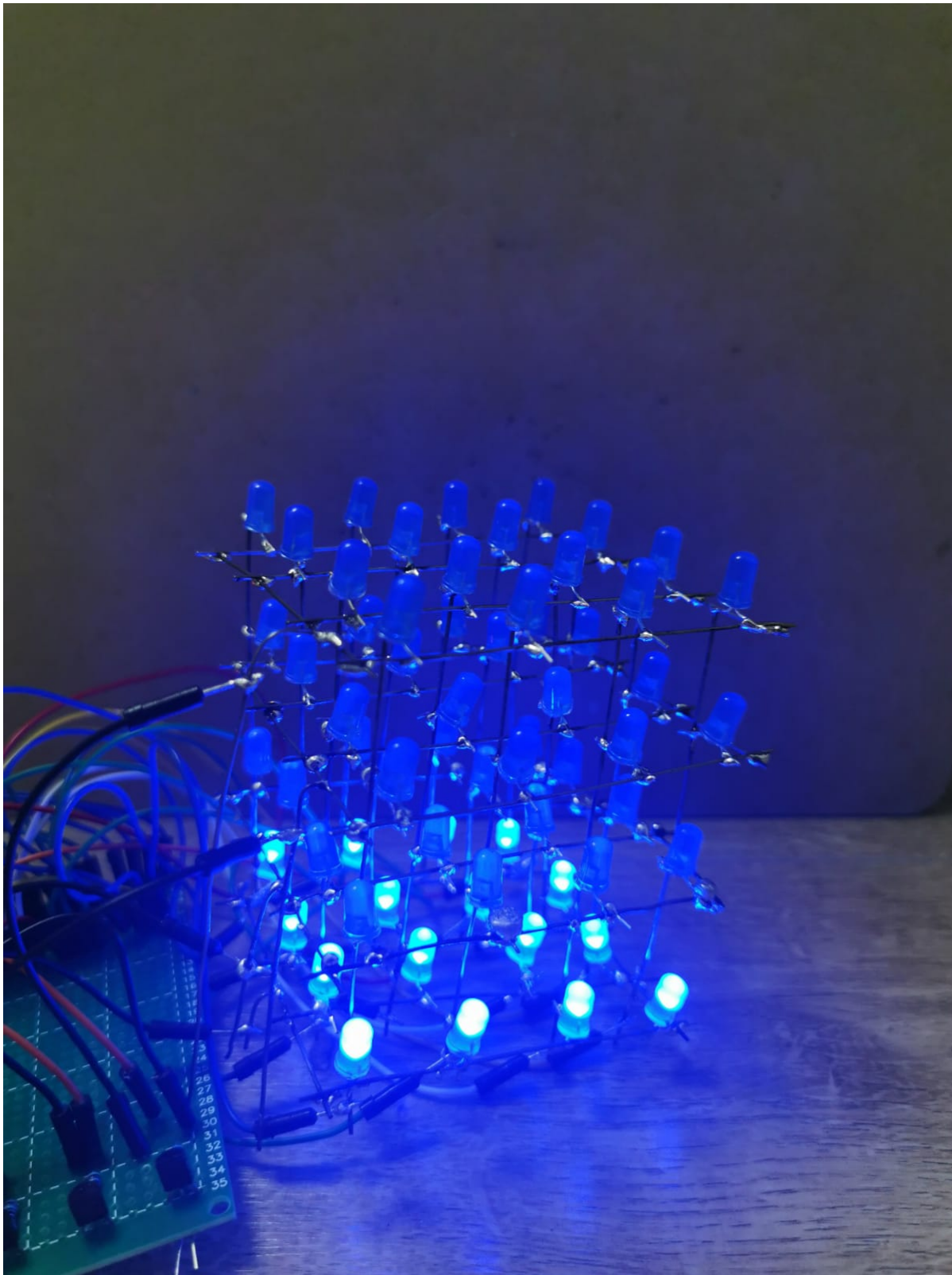
Software Design

La inceput cubul va fi aprins.

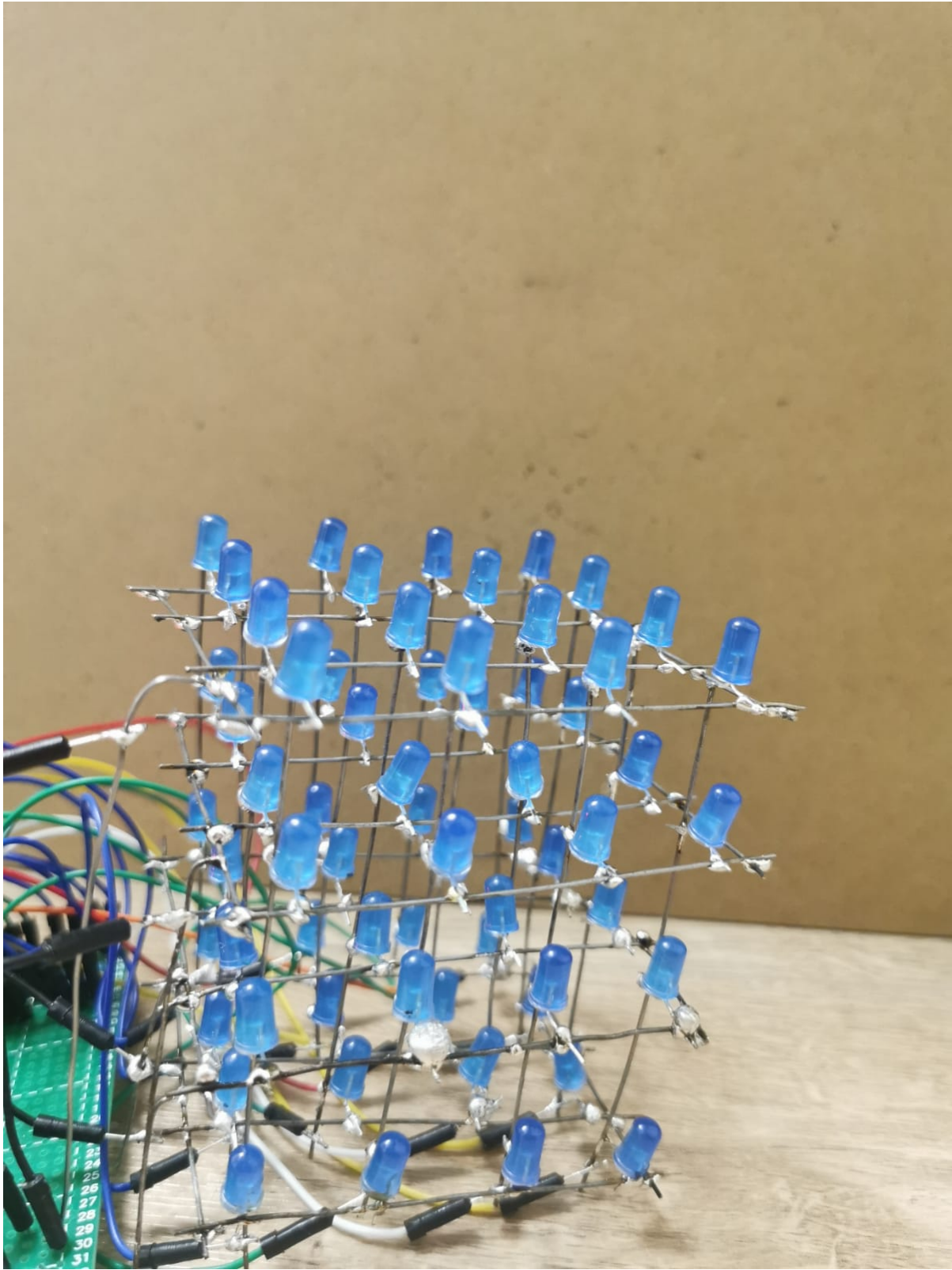


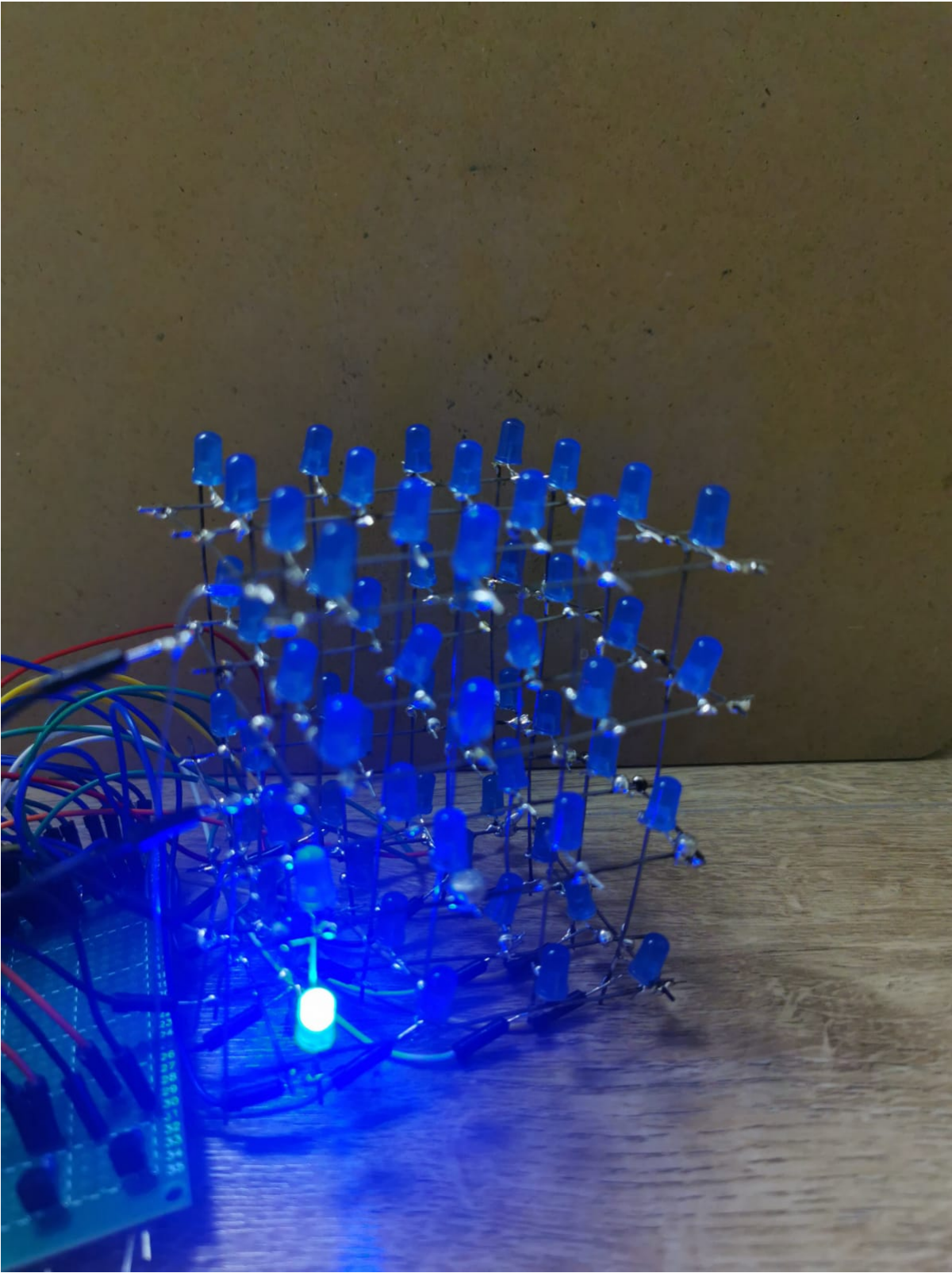
Efectele se vor desfasura apoi in ordinea prezentata la sectiunea descriere generala.

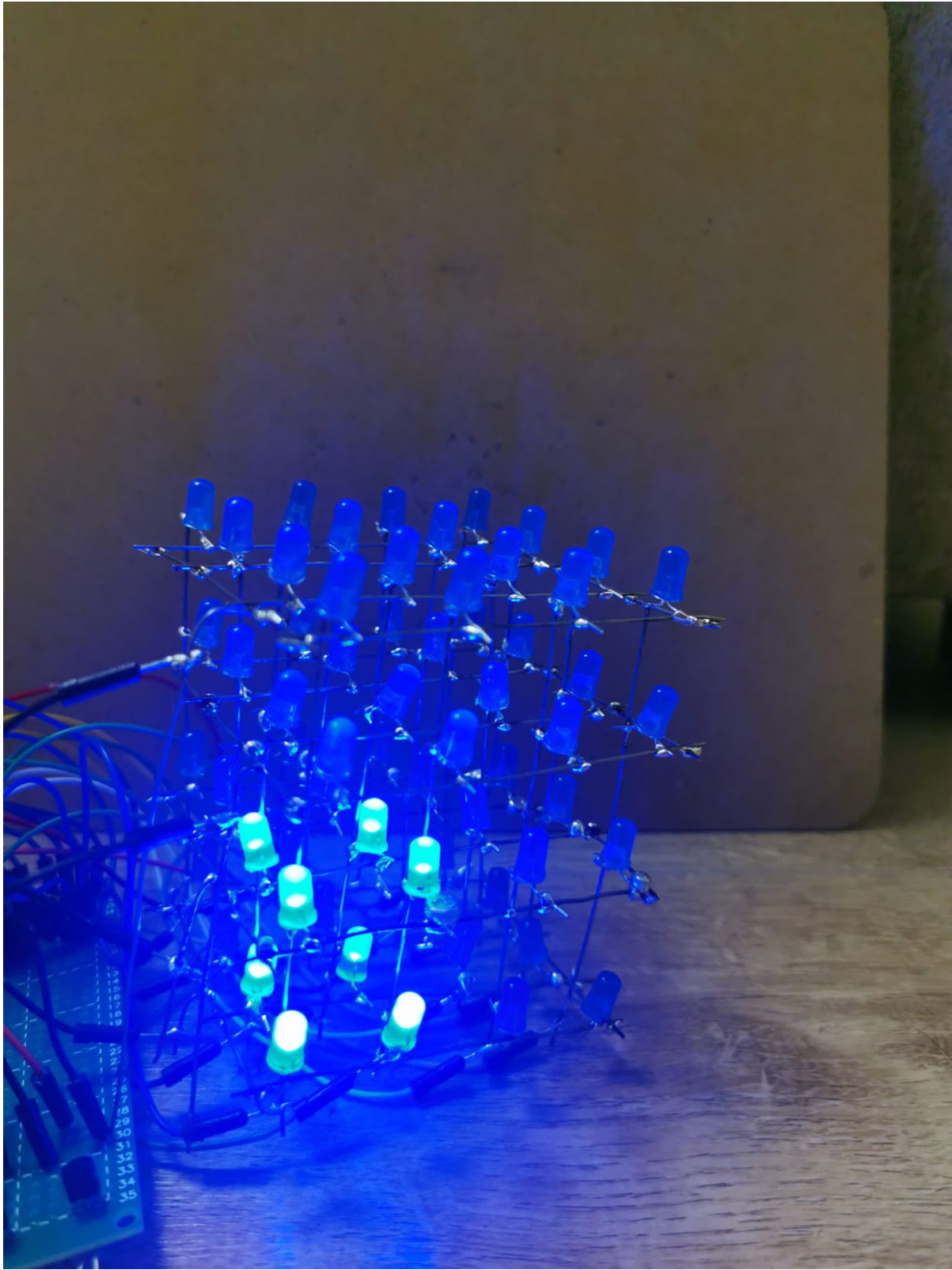


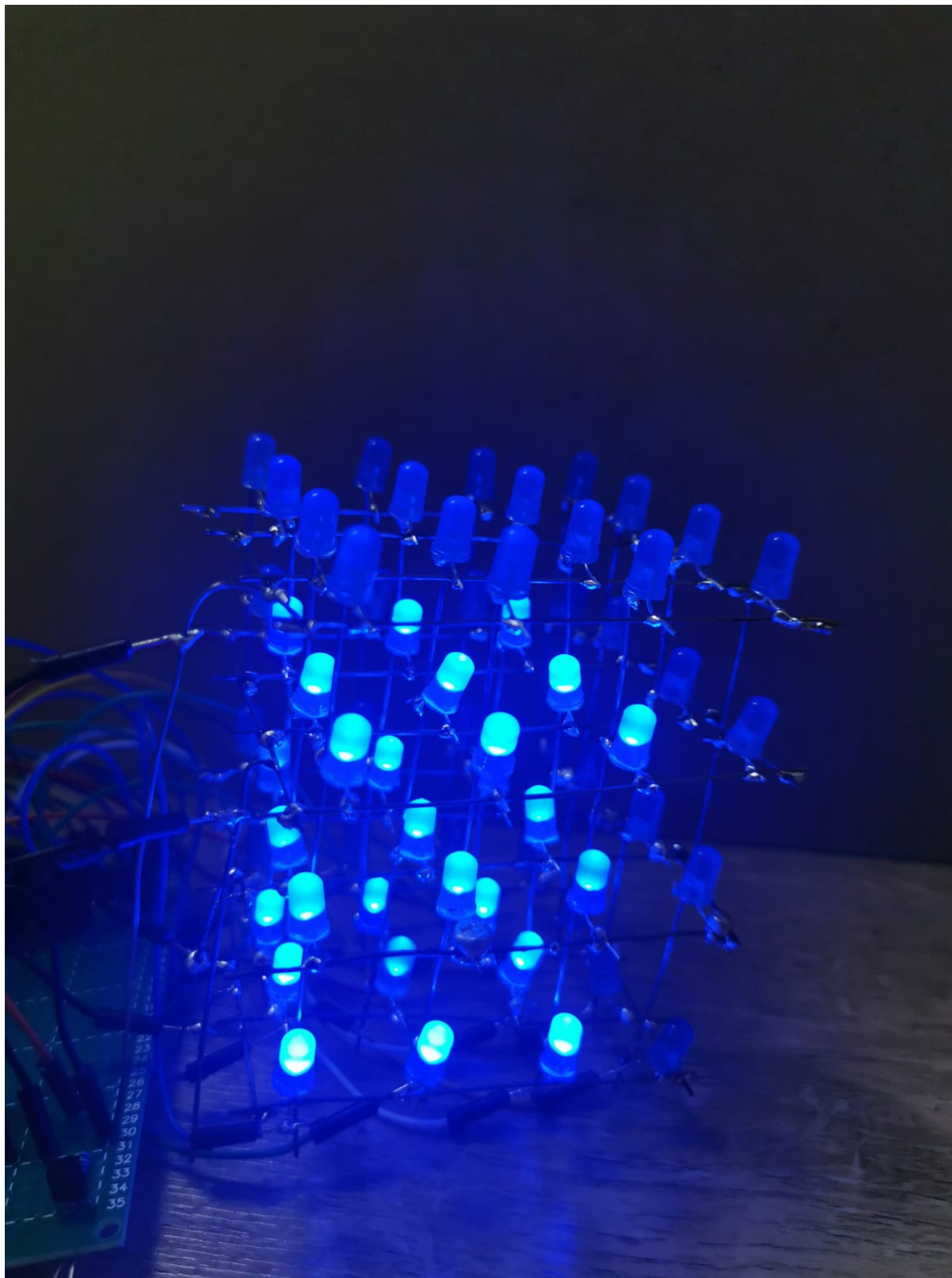


Rezultate Obținute









[Prezentare video](#)

Concluzii

Realizarea cubului a fost mai dificila decat credeam, mai ales din punct de vedere al lipiturilor realizate.

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