



(سېھىرلىك ئۆرنەكلەر) Magical Design

- Arduino Project Hub
- https://projecthub.arduin o.cc/trending
- Tinkercad Learning Center (ئۆگىنىش مەركىزى)
- https://www.tinkercad.co m/learn

مەسلە ھەل قىلىشنىڭ يوللىرى

- سىم يولىنى تەكشۈرۈڭ
- Pinنومۇرىنى تەكشۈرۈڭ
- توك مەنبەسىنى تەكشۈرۈڭ
- قارشىلىق قىممىتىنى تەكشۈرۈڭ
- زىننەت چىرىقىنىڭ يۆلىنىشىنى تەكشۈرۈڭ

Tips for debugging

- Check wiring
- Check Pin numbers
- Check Power supply
- Check Resister values
- Check LED direction

Program Structure

Program Structure

```
//Globale variable
void setup()
  //Initialization
void loop()
  //Main Program
```

You need to use the following:

Which Pin (0, 1, 3, ...) are you using?

```
pinMode(pin, mode);
```

A Digital Pin can either be an INPUT or an OUTPUT. Since we shall use it to turn-on a LED, www.set it to OUTPUT.

```
digitalWrite(pin, value); Turn-on LED LED
```

A Digital PIn can have 2 values, either HIGH or LOW

```
delay(ms);
```

The delay() fuction make a small pause in milliseconds (ms), e.g., delay(1000) pause the program for 1 second