TRAFFIC LIGHT CONTROLLER
Control traffic light Using Arduino Microcontroller

متحكم إشارة المرور
تحكم بإشارة المرور باستخدام الأردوينو

Studio56.qa
Circuits and Electricity

- Circuit
- Signals
- Power
- Inputs
- Outputs
What is Traffic Light??

What is consist of??

How lights turn on and off??

Do you think we can control it ??

If we can control it, then what is the effect on traffic system??
What is Microcontroller??

What they do??

Where we use them??

ما هو المتحكم الدقيق؟؟

ما هو عمله؟؟

أين يمكن استخدام المتحكمات الدقيقة؟؟
ARDUINO

- Input (Laptop)
- Power (battery)
- Output (LED)
الصمام الضوئي المشع
LEDs
القطب الموجب
Positive
القطب السالب
Negative
How do we use Microcontroller??

كيف نستخدم المتحكم الدقيق؟؟

المداخل
Input

الأردوينو
Arduino

المخارج
Output
LET’S CONNECT

هيا نقوم بالتوصل
THE STORY

Aysha is a 10 years old girl that went to attend a football match in 2022 World Cup. At the end of the match, Aysha went out with her parents to reach the parking area and they have to cross a road to get there.

There is a traffic light signal and a huge amount of people waiting there to cross the road, but unfortunately the light signals opens only for 30 seconds and closes again for more than 10 minutes, this is because it’s preprogrammed for that.
We need you to find a solution to help Aysha to reach the parking faster without the need to wait for a long time on the traffic signals.
HERE In QATAR We HAVE

TASMU

Qatar Smart Program (TASMU) is designed to accelerate the achievement of all the pillars of the Qatar National Vision 2030. This program will serve as a platform for the realization of a digital economy and a smart future.
LET’S CONTROL TRAFFIC

هيا نتحكم بإشارة المرور