Electronic Basics #5:

In this video we can learn about:

1)How can we make an 10x5 LED matrix and control with Arduino,

=To make 10x5 LED matrix,we need 50 LEDs and 50 output pins .But the largest Arduino board in the Arduino family is Arduino mega,which has 54 output pins. So, it will be difficult to control this 50 LED.So,to simplify this project, we can use an Arduino nano ,one TLZ 590 LED driver,5 P-channel MOSFET,one piece of 2K resistor and 5 pieces of 1K resistor.

2)What is P-channel mosfet?

= A P-channel MOSFET is a type of transistor.It is used for swithing and amplification in electronic circuits.

If we don't use P-channel MOSFET, these LEDs will make a static picture. To make a picture with blinking a row and column,we have to use P-channel MOSFET as a switch.

3)What is TLZ 5940 and why TLZ 5940 is used?

=TLZ 5940 is used to get 10 output from this module.

3)How to get TLZ programming code from Arduino IDE library?