

- If there are no errors in the code, then the project will be built successfully and the hex file will be created.

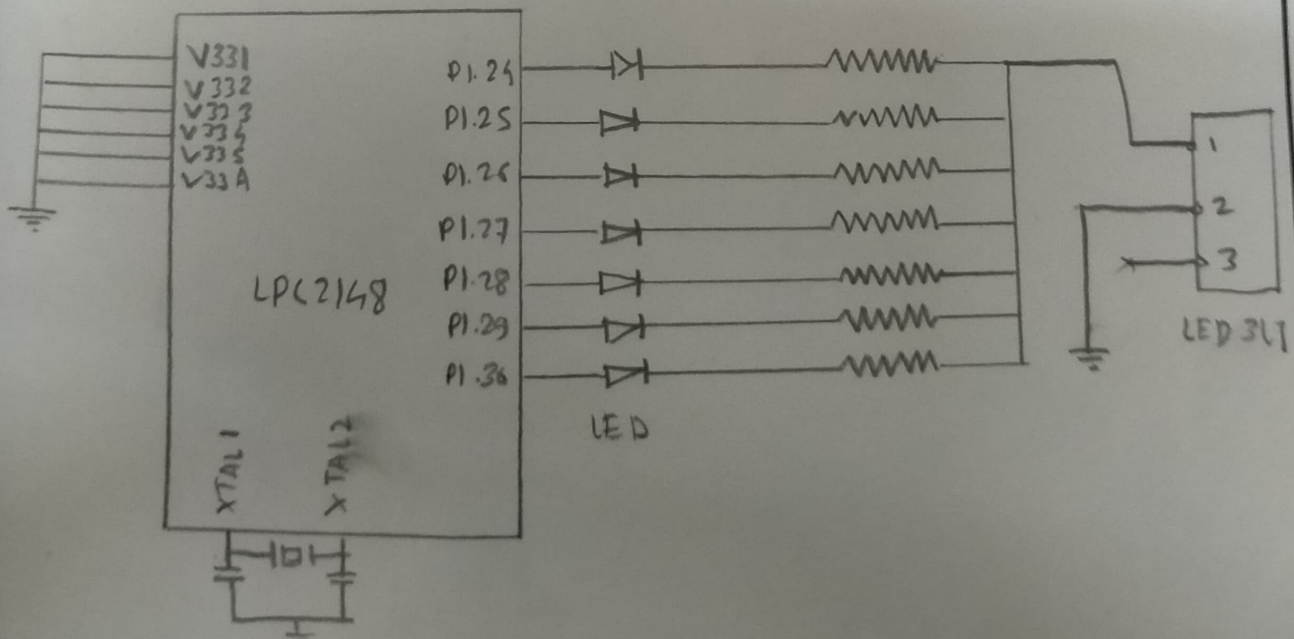
4. Working with Flash Magic Software

- Now open the flash magic software and follow the below steps.
- Select the IC from Select Menu(LPC2148).
- Select the COM Port. Check the device manager for detected Com port.
- Select None Isp Option.
- Check the Erase blocks used by Hex file option
- Browse and Select the hex file.
- Check the Verify After Programming Option.
- Hit the Start Button to flash the hex file.
- Once the hex file is flashed, Reset the board. Now the controller should run your application code.

INTERFACING DIAGRAM:

CONCLUSION:

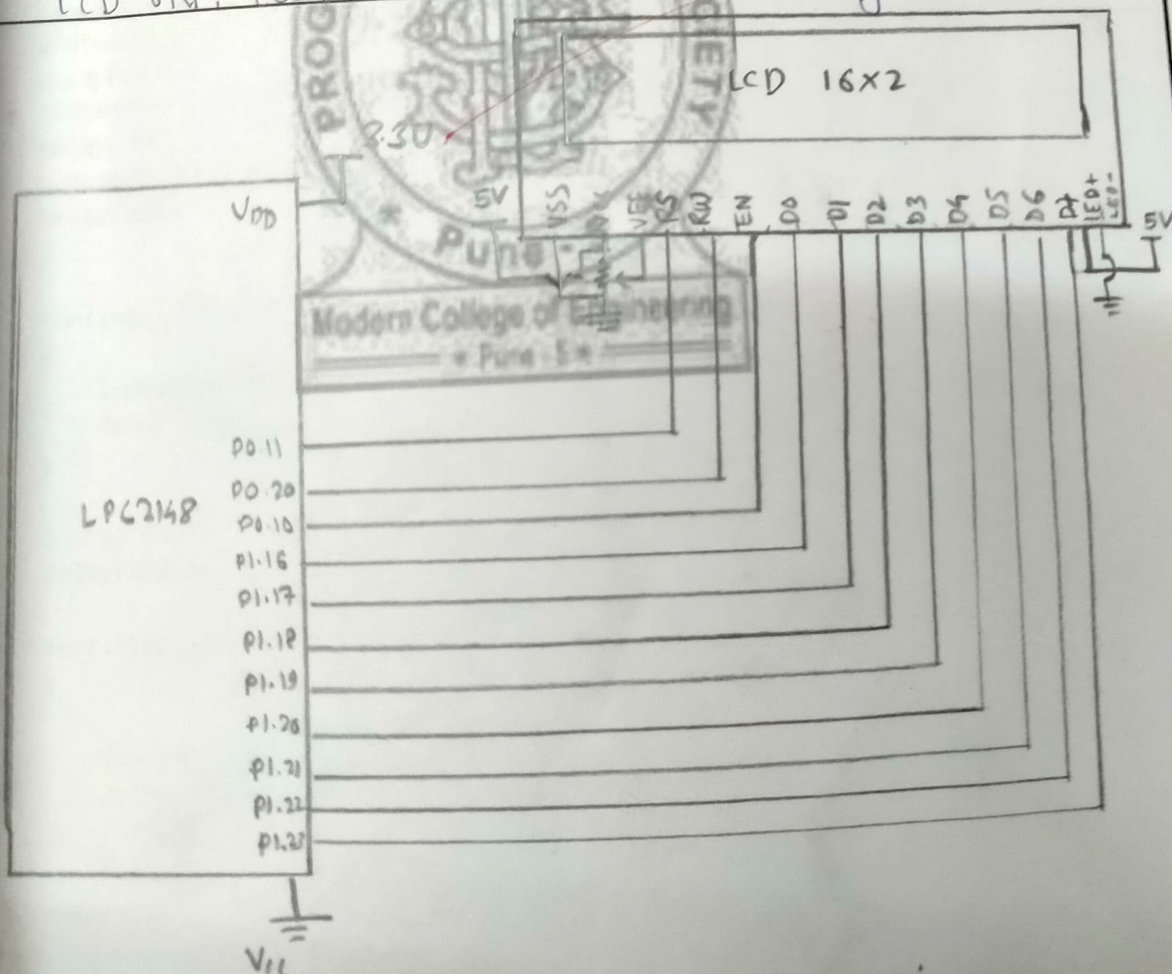
In the experiment of Embedded Processor and application, we successfully blink the LED using LPC2148. In which LED should be connected to microcontroller port and the microcontroller has to be programmed inside to make LED ON or OFF or blink or DIM.



INTERFACING DIAGRAM:

CONCLUSION:

In experiment of Embedded Processor & Application we have done Interfacing LPC2148 to LCD and display message on LCD. In this the data send to 8-bit for initialization and making LCD on, cursor on and cursor blinking on.

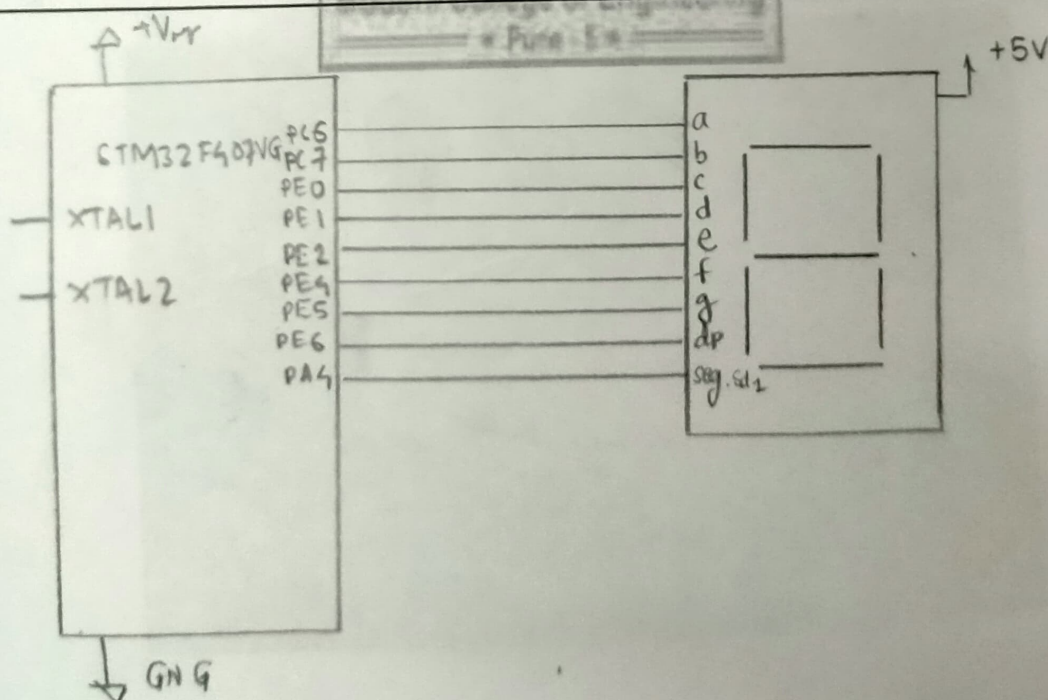


- Select the IC from Select Menu(LPC2148).
- Select the COM Port. Check the device manager for detected Com port.
- Select None ISP Option.
- Check the Erase blocks used by Hex file option
- Browse and Select the hex file.
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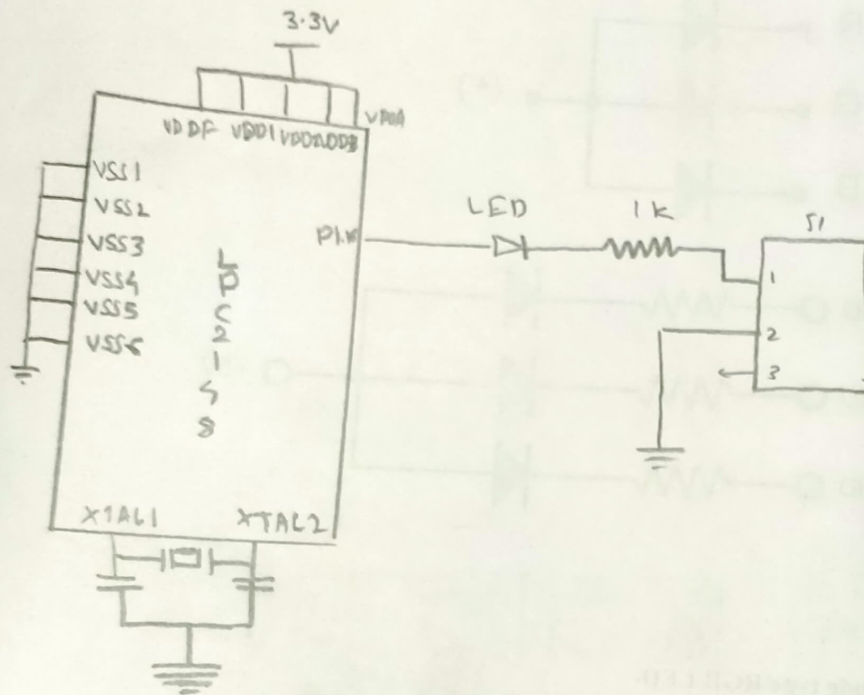
INTERFACING DIAGRAM:

CONCLUSION:

In this experiment we have successfully interface LPC2148 to seven segment display and display a count from 0 to 9 with suitable delay.



Interfacing Diagram :-



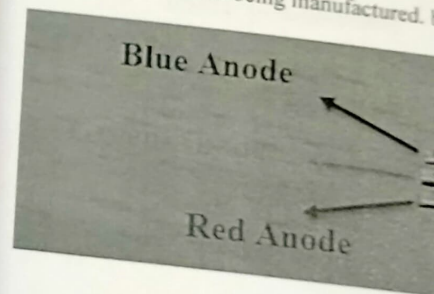
Embedded Processor & Application

We cannot distinguish between the common cathode or common anode RGB led because both look same. We w

The RGB led has one big lead than the other to GND and in the common anode case; it

SMD RGB LED-

In through-hole RGB LED we have 4 leads. even RGB LEDs are being manufactured.



An SMD RGB LED also contain three indi each internal LED has its dedicated anode a

INTERFACING DIAGRAM:

CONCLUSION:

In the experimen and application w to RGB LED and succ possible color generat

- Select None ISP Option.
- Check the Erase blocks used by Hex file option
- Browse and Select the hex file.
- Check the Verify After Programming Option.
- Hit the Start Button to flash the hex file.
- Once the hex file is flashed, Reset the board. Now the controller should run your application code.

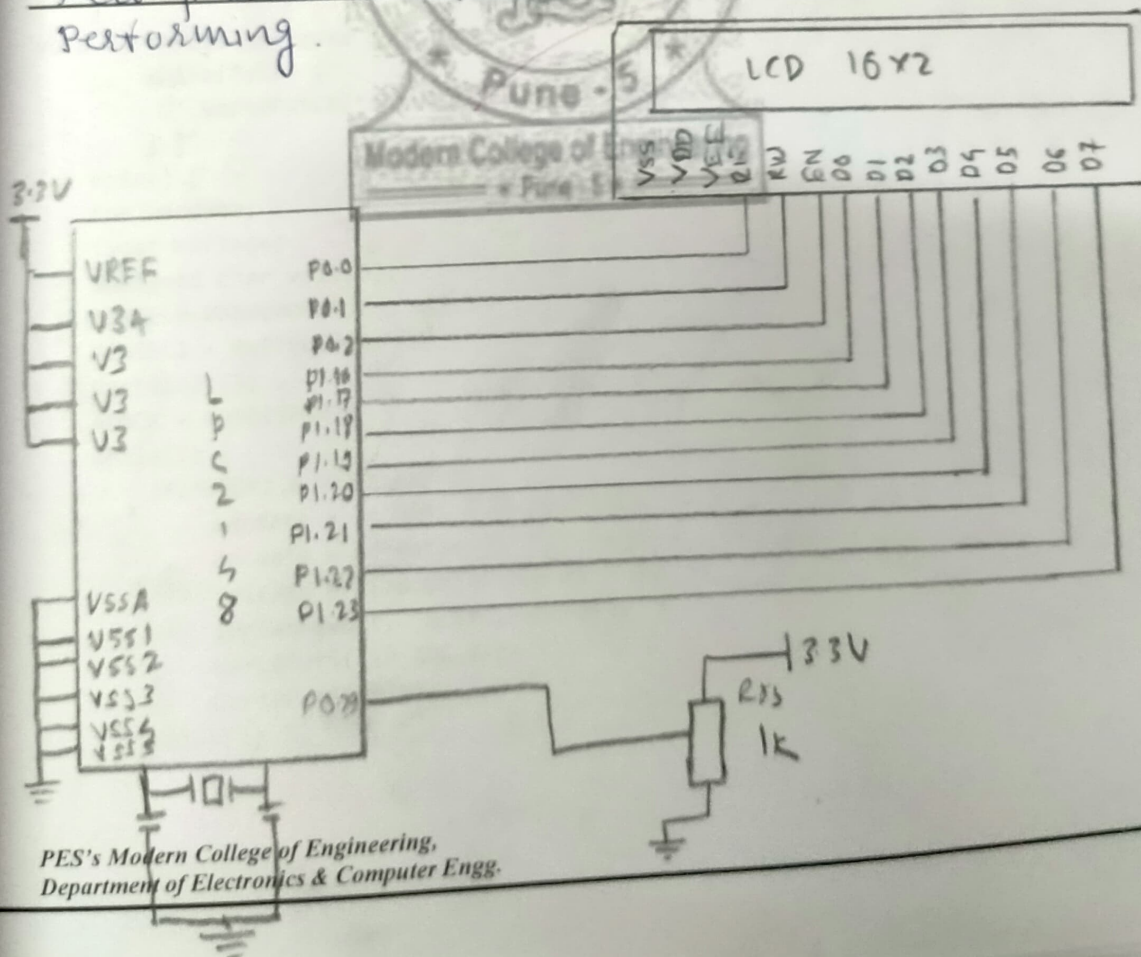
INTERFACING DIAGRAM:

CONCLUSION:

CONCLUSION:

In conclusion, the successful interfacing of the LPC2148's internal ADC and display of digital values on the serial port & an LCD can be achieved through proper configuration and programming. Keil provide a convenient environment while performing.

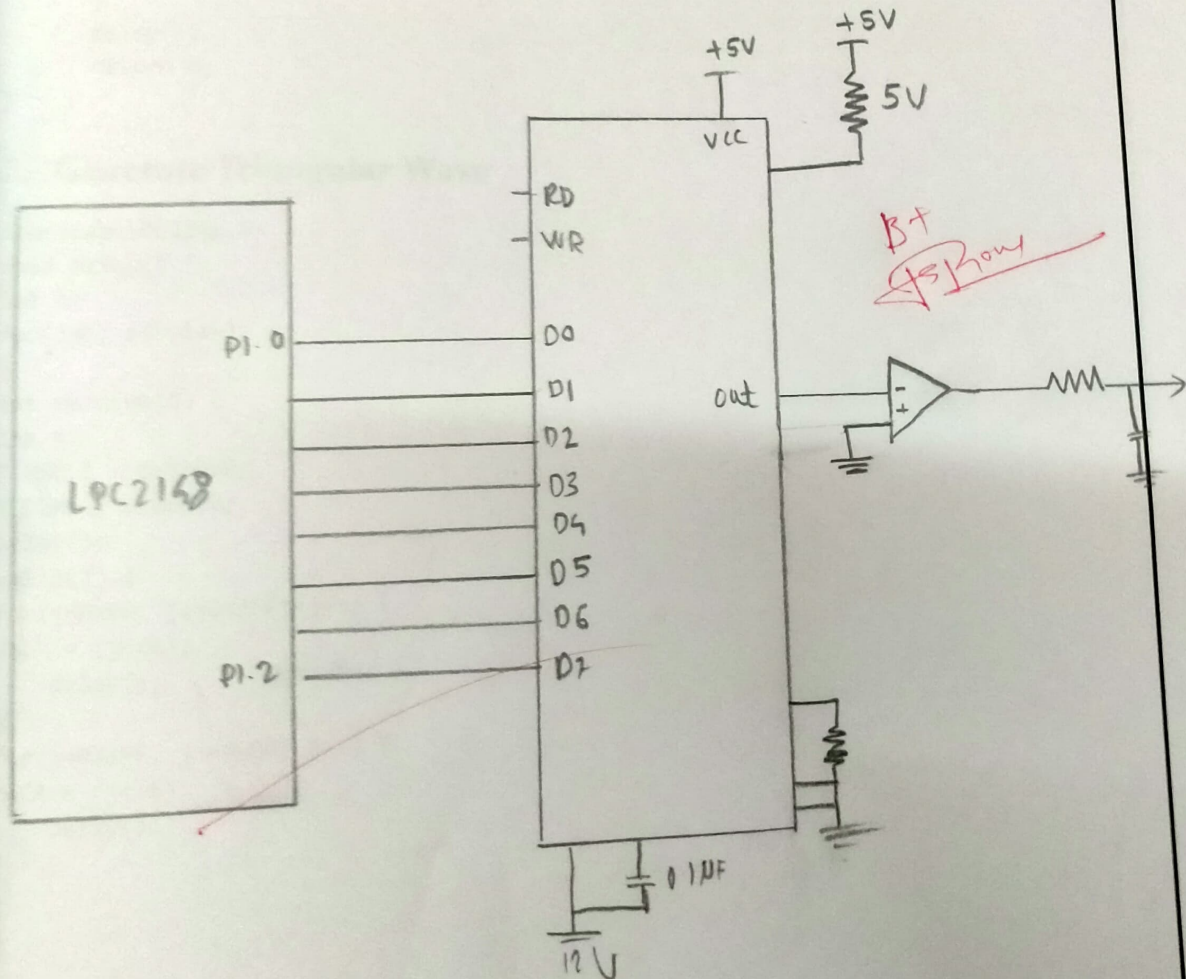
LCD 16x2



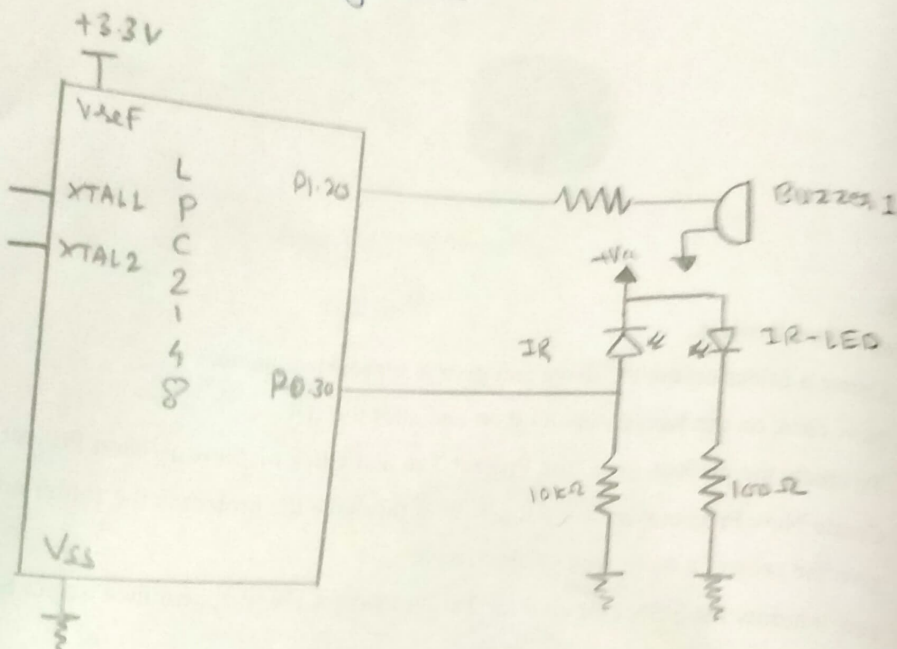
INTERFACING DIAGRAM:

CONCLUSION:

Interfacing the LPC2148's internal DAC and Generating waveforms involves proper configuration programming and testing. Keil uVision provide a convenient environment for developing & testing.



Interfacing Diagram:-



Embedded Processor & Application

- Click 'OK'
- Now you can complete your code
- To compile: Build the code, go to the Project menu and select 'Build'.
- If there are no errors in the code, the hex file will be created.

4. Working with Flash Magic Software

- Now open the flash magic software
- Select the IC from Select Menu
- Select the COM Port. Check the
- Select None ISP Option.
- Check the Erase blocks (erase)
- Browse and Select the hex file
- Check the Verify After Program
- Hit the Start Button to flash
- Once the hex file is flashed, your application code.

Interfacing Diagram (IR sensor and Buzzer)

CONCLUSION:

By combining the capability with buzzer, we can create an interface using LPC2148 and