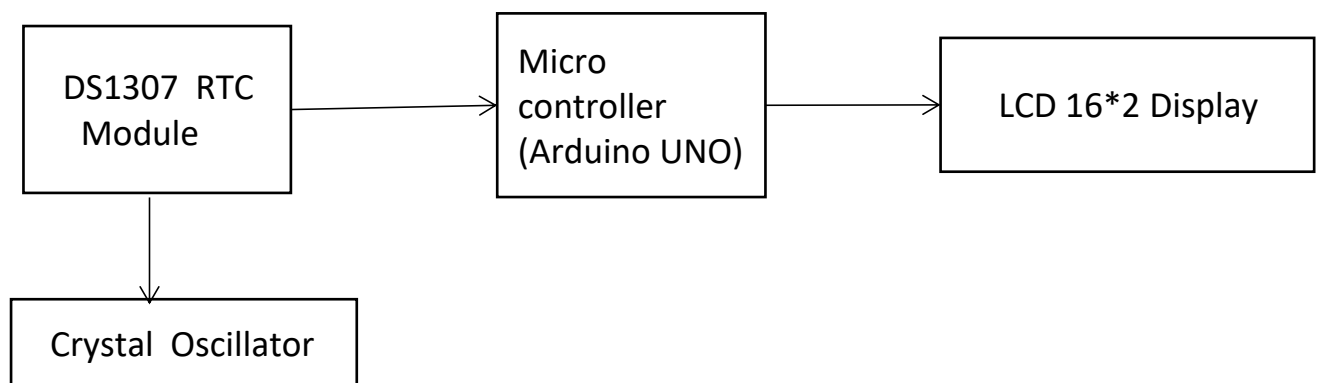


Real Time Clock

Objective: Design a Real Time Clock Using DS1307 RTC with Arduino and show the Time and Date on LCD.

Components Required: Arduino UNO, LCD 16*2 Module, DS1307 RTC Module, 32KHZ Crystal Oscillator, wires, Ground and Power Supply.

Block Diagram:



INPUT AND OUTPUTS:

S.NO	Description	Name	Type	Data direction	Spec	Remarks
1	DS1307 Serial clock Pin	SCL	INP	DI	5V DC	Active High
2	DS1307 Serial Data Pin	SDA	INP	DI	5V DC	Active High
3	LCD Reset Pin	RS	OUT	DI	5V DC	Active High
4	LCD Enable pin	E	OUT	DI	5V DC	Active High
5	LCD Data Pin1	D1	OUT	DI	5V DC	Active High
6	LCD Data Pin2	D2	OUT	DI	5V DC	Active High
7	LCD Data Pin3	D3	OUT	DI	5V DC	Active High
8	LCD Data Pin4	D4	OUT	DI	5V DC	Active High

Flow Chart:

