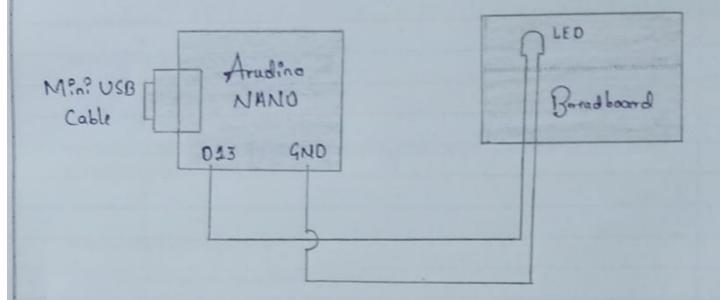
Circuit Diagnam 1-



To P 1. D.	1.FD Bugger	with .	Aru dina	NANO	and
here a proc	gram to	turn ON	" LED	for 1 pero	nde
To Interface White a production of the series	gerondg.				

Aim: To interface LED Buzzer with Arudino NANO and Write a program to turn ON the LED for 1 records after 2 seconds.

Apparatus requiredi-

1			A	
	SI, NO	Equipment Name	Quantity	
	1	Equipment Name Arudino NANO with	1	
	1	Cable		
	2.	LED Buzzer	1	
15 7	3.	Rereonal Computer	10000	
	4.	Tumper Wire		
		2		

Theory:

* The Andrew Name board features an Atmel Almega 308

microcontroller operating at 5V with 9 kb of RAM,

32 kb of flack memory for storing programs and

1 kb of EFPROM for storing Parameters.

* The clock speed &s 16M th, while translates to about

executing about 300,000 lines of C rource code

Por record.

* The board has 14 digital I/O pine and 6 analog

Saput pins.

Teacher's Signature:

```
Program :
   # dellere led Pin 13
    Vold Retup ()
      pla Mode (led Pin 13, OUTPUT); l'initialize the
              LED-bultin pin as output
      Void loop ()
       digital Write (13, HIGH): 11 turn ON the LED
        delay (1000);
        digital Write (13, 600); Il turn OFF the LED
        delay (2000);
```

	* There Pe a USB Connector for talking to the
	host computer and a DC power Pack for
	Connecting an external 6-19V power source, for
	example of 9 1/ haller 1 leller power xource, 100
	example of a g V bottery, lillen running a program while not connected to the host computer.
	- 1 The Anding programming language So a complibied
	- 1 The Arudino programming longuage ? a eimplified version of color
	familier I you do not know C, no need to worry as only a few Commands are needed to perform useful partions.
	familier. I you do not know (, no need to worry
	as only a few Commands are needed to perform
	veeful fontione.
	to To this experiment the proMode command sets the
	LED pin to be an output. The Direct digital Write
	LED pin to be an output. The first digital Write command ease to set pin 13 of the druding HIGH,
	(5) 45 volte.
	I This sends current from the pin, through the resistor, through the LED (which lights ?1) and to ground.
	through the LED (which lights ?1) and to ground.
	* The delay (500) Command waste for 5 meter. * The record oligital bildrite command gets pen 13 to Low on OV stopping the correct thereby turning the LED off.
	+ The percond oligital Whrite command pete pin 13 to
- 3/1	LOW (OV stopping the current there by turning
	+ (ode within the brackers defining the loop () Dunction Re repeated forever, which is why the
	Dunction to repeated forever, which is why the
	Let) Blaky,

Teacher's Signature : _

Procedux:
1.0(600 /
1. Connections are made as per the circuit diagram
B. Calleania Ha dulla TOE
1. Connections are made as per the circuit diagram B. Configuring the struding IDE Step 1: Deelect struding and click on the tools
To l'on
Step 2: gelect the processor "ATmega 328 P" > ATmega 3881
(old bootloader)
Step 3: relect the toole > Portes com 3 com 4)
delant se comz
3. The the program is the editor Window of
J. Type the program in the editor Window of arudino Tot
4. Verily and Upland the same.
4. Verify and Upload the same. 5. Note of the output through LED bugger.
Pepult! Henceforth, the practicle extablishment for sortesfacing andino NANO with LED buzzer se success fully achieved and Verified.
Henceforth, the practicle extablishment for
Enterfacing arudino NANO with LED bigger
eg succeso pully achieved and Verified.
To a basis Standburg
Teacher's Signature :