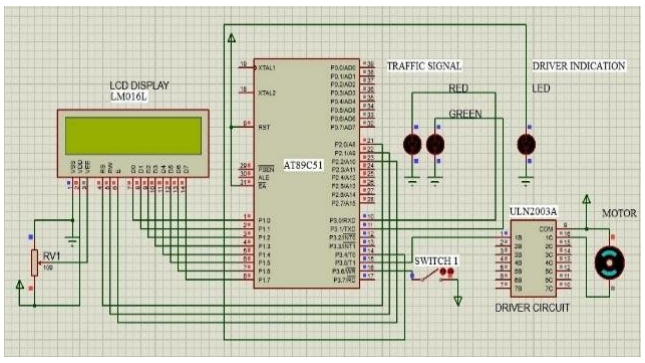
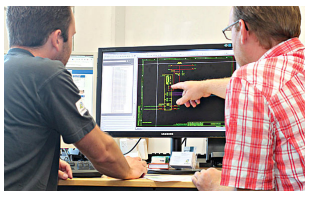
Proteus Simulation Based Circuit Diagrams

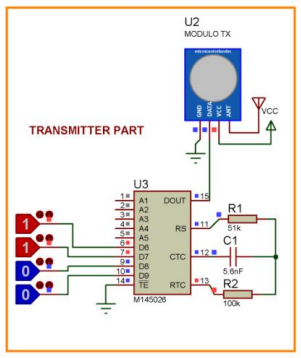


The Proteus Design Suite is a proprietary software tool suite used primarily for electronic design automation. The software is used mainly by electronic design engineers and technicians to create schematics and electronic prints for manufacturing printed circuit boards and schematic circuits. Also, you can check more details from here: labcenter.com

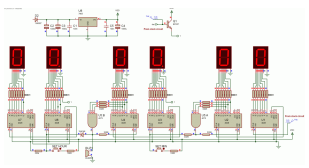
Here we have shared some Proteus Simulation-Based Circuit Diagrams, check the list below:



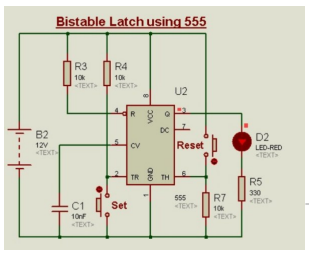
[Top 10 free Software for Circuit Diagrams/Schematics] There are several circuit diagram softwares available in the market which vary in lot of parameters including user friendliness, features and complexities. Here are top 10 free Software for Circuit...



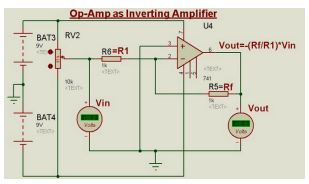
[Remote controlled Home automation without using microcontroller (Part-1) Schematic Circuit Diagram] We will make this project in two part. In the first part, we will design a remote control circuit using RF module and in the second part, we then connect...



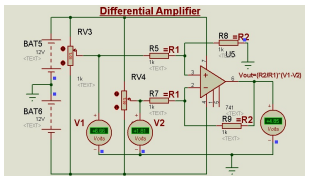
[Digital alarm clock using 4026 logic gates Schematic Circuit Diagram] Description and concept behind digital clock This digital alarm clock project use 4026 IC which is decade counter as well as seven segment driver . Seven segment display is used...



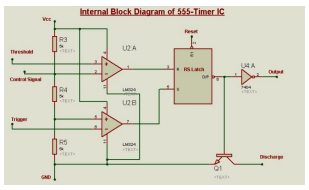
[Schematic Circuit Diagram 555-Timer as a Bistable Latch proteus simulation] The RS Latch in the 555 Timer can be used with the Reset and Trigger inputs. The output is set or reset with the momentary inputs applied at these inputs....



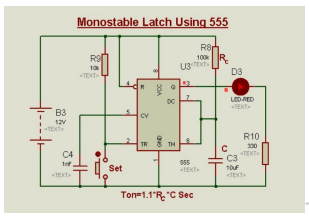
[Schematic Circuit Diagram Op-Amp as an Inverting Amplifier proteus simulation] In this circuit, Op-Amp operates in the closed loop. Input is applied to the Inverting terminal and output is fed-back to the inverting terminal as voltage shunt feed-back. The polarity...



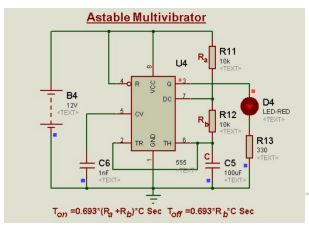
[Schematic Circuit Diagram Op-Amp as Differential Amplifier/Subtractor proteus simulation] The difference of the voltage between V+ and V- is amplified in this circuit. It is similar to the comparator mode, and in addition the Op-Amp is operated in a...



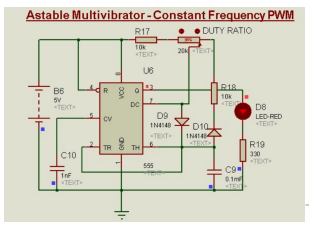
[Schematic Circuit Diagram of Internal block diagram of 555-Timer IC proteus simulation] 555-Timer is one of the most popular and mostly used ICs. It best suits for timing/timekeeping related circuits. It consists of two operational amplifiers operated in an open loop or...



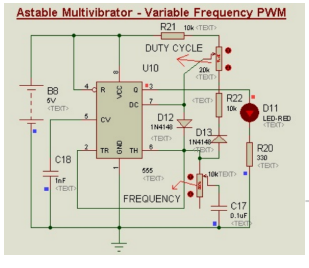
[Schematic Circuit Diagram Monostable Latch using 555-Timer proteus simulation] Mono-stable Latch using 555 Using the charging and discharging phases of RC-Circuit as a continuous voltage signal, timing circuits can be designed. When the voltage at trigger input falls from...



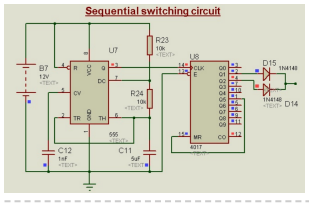
[Schematic Circuit Diagram Astable Multivibrator using 555-Timer proteus simulation] The monostable circuit is modifie trigger itself by connecting trigger terminal and threshold terminal. As in the monostable circuit, the output is set during the charging period of a...



[Schematic Circuit Diagram Constant frequency PWM Using 555-Timer proteus simulation] Constant frequency PWM Using 555-Timer With the basic astable circuit, the duty ratio cannot be controlled without affecting the frequency. Using the above circuit, it is possible to maintain a...

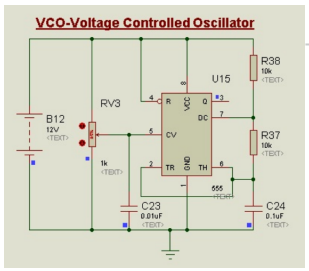


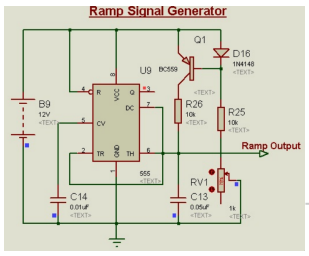
[Schematic Circuit Diagram Variable frequency PWM Using 555-Timer proteus simulation] By including a variable resistor in series with the capacitor in the above circuit, frequency can be varied along with the duty ratio. As this resistor is involved in both...



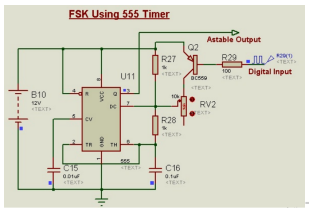
[Schematic Circuit Diagram Sequential Switching Circuit Using 555-Timer proteus simulation] The astable multivibrator can be used as a clock pulse generator for digital ICs like counters. CD 4017 is a decade counter, so ten events can be run in sequence...

[Schematic Circuit Diagram Voltage Controlled Oscillator (VCO) proteus simulation](#) VCO Using 555-Timer The Control Voltage terminal of the IC is internally preset at 2/3 Vcc. When the timer is operating in astable mode, if this voltage is altered externally...

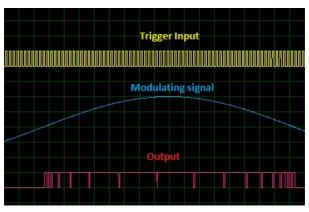




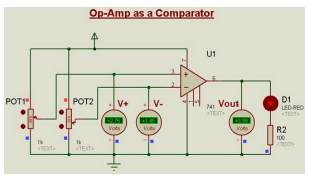
[Schematic Circuit Diagram Linear Ramp Signal Generator Using 555-Timer proteus simulation](#) Ramp Signal Generator Using 555-Timer The astable multivibrator with discharge terminal connected to the threshold terminal offers the least resistance during discharge period of the capacitor. This gives a sharp...



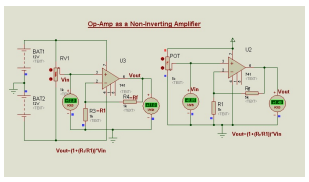
[Schematic Circuit Diagram FSK Using 555-Timer proteus simulation](#) FSK Using 555-Timer The astable multivibrator with selective frequency input gives FSK Frequency Shift Keying. We may manually change the frequency through a potentiometer, but if it has to be...



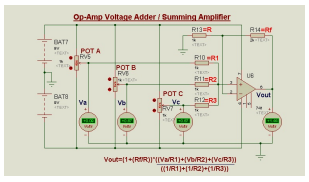
[Schematic Circuit Diagram Pulse Width Modulation with modulating signal proteus simulation](#) Sinusoidal Pulse Width Modulation The monostable multivibrator, with the modulating signal at the control voltage terminal, gives pulse width modulation according to the modulating signal. For this, the basic requirement...



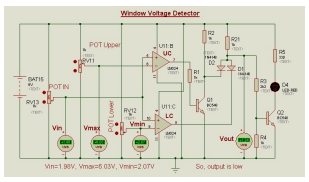
[Schematic Circuit Diagram Op-Amp as a Comparator proteus simulation](#) The basic application of an Op-Amp is to use it as a voltage comparator. This is open loop operation of Op-Amp. The voltage at the Non-Inverting and Inverting terminals (pins)...



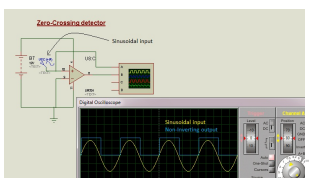
[Op-Amp as Non-Inverting Amplifier proteus simulation Schematic Circuit Diagram](#) In this circuit, Op-Amp operates in a closed loop. Input is applied to Non-Inverting terminal and output is fed-back to the Inverting terminal as a voltage shunt feed-back. The polarity...



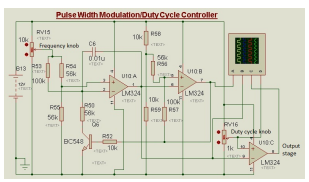
[Schematic Circuit Diagram Op-Amp as a Summing Amplifier/Adder proteus simulation](#) Voltages from various sources referred to the common ground are added in this circuit. The gain of the output can be controlled by selecting appropriate resistance values. If R1=R2=R3=R=2*Rf then...



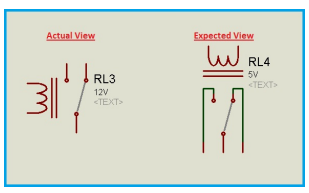
[Schematic Circuit Diagram Op-Amp as a Window voltage detector proteus simulation](#) To detect the arrival of a particular range of voltage(s) from the swing of an input signal, this circuit is used. Two Op-Amps in comparator mode are used in this...



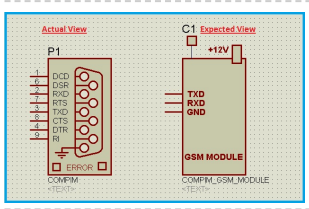
[Schematic Circuit Diagram Op-Amp as Zero-Crossing detector proteus simulation](#) Sinusoidal voltages signals are often converted to square waves using Zero-Crossing detectors. In this circuit, Op-Amp operates in the open loop comparator mode. The supply voltage can be single or...



[Schematic Circuit Diagram PWM-Pulse Width Modulation proteus simulation](#) Combination of astable multi vibrator, Integrator, Comparator gives the PWM circuit. But if the frequency of operation is to be variable, then it becomes difficult, as it is necessary to...

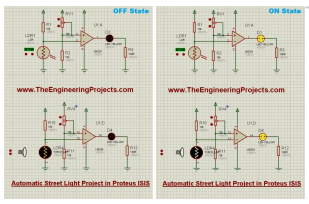


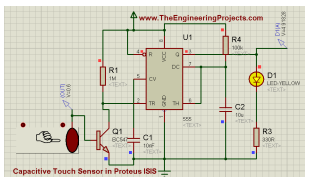
[Schematic Circuit Diagram Make/Modify a Component in Proteus (2D Graphics) proteus simulation](#) Modifying the view of a Relay Let's begin with a simple component, the Relay. In this example, the shape and the orientation of the component are modified. A basic relay...



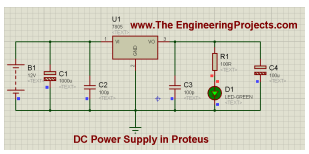
[Schematic Circuit Diagram Creating UART Modules-Modifying the COMPORT proteus simulation](#) The Proteus software has an option to interface with external modules in real-time through the COMPIM (Comport Physical Interface Module) component. Its default view is a DB9-Pin Serial Port connector....

[Automatic Street Light Project in Proteus Schematic Circuit Diagram](#) Hello everyone, I hope you all are fine and having fun with your lives. Today, I am going to share a semester project which is named as Automatic Street Light Project....

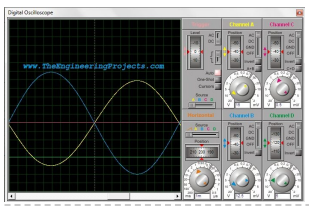




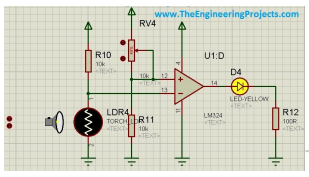
[How to use Capacitive Touch Sensor in Proteus Schematic Circuit Diagram](#) Hello friends, I hope you all are fine and enjoying. Today i am going to share my new project's tutorial which is How to use Capacitive Touch Sensor in Proteus...



[How to Design a 5V Power Supply in Proteus Schematic Circuit Diagram](#) Hello friends, hope you all are fine and enjoying in your life. In the previous post, we have seenHow to use Oscilloscope in Proteus ISIS, today I am going share...

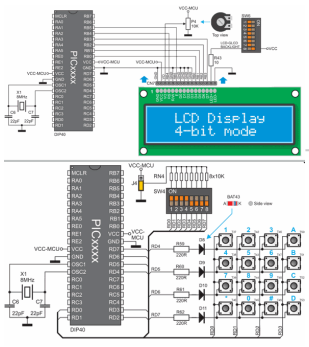


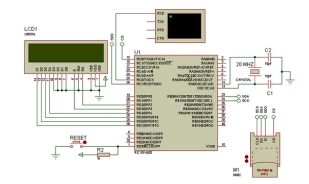
[How To Use Oscilloscope in Proteus ISIS Schematic Circuit Diagram](#) Hello friends, today I am going to post the next lecture of Proteus Tutorial. I am receiving quite a positive response about this Proteus tutorial. In the previous post, we...



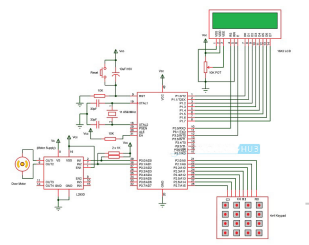
[How to use LDR Sensor in Proteus Schematic Circuit Diagram](#) In today's post, I am gonna share how to use LDR sensor in Proteus. Proteus, as we all know, is a very handy software and is used for circuit and...

[MICROPROCESSORS LABORATORY EXPERIMENT BOOK REVIEWS, INFORMATION Schematic Circuit Diagram](#) The book will be quite useful for beginning 45 pages of microprocessors, compiler programs beginning, pre-information application circuits and many other topics that are not too complicated to be supplemented...





[MICROC EXAMPLES C CODES PROTEUS ISIS CIRCUITS Schematic Circuit Diagram](#) I am sure that thanks to Mikroc Deray of Aytaç , many people have had a lot of knowledge and I hope that the examples given in this article also contribute. There are also 27 projects...



[Password Based Door Lock System using 8051 Microcontroller](#) The Password Based Door Lock System with the 8051 Microcontroller is a simple project that uses a secure password to unlock the door. Traditional lock systems that use a mechanical...

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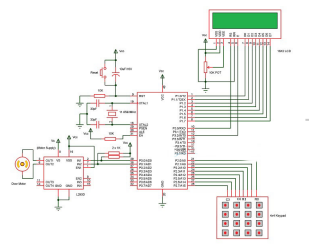
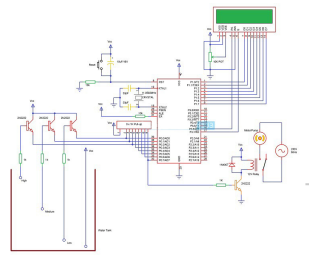


[Wireless Electronic Notice Board using GSM](#) We understand the value of notice boards in public places such as train stations, bus terminals, and airports. Changing notices on a daily basis, however, is a demanding task. This...



[Water Level Controller using 8051 Microcontroller](#) By sensing the water level in a tank, the Water Level Controller utilis Microcontroller project will assist in automatically managing the water motor. This article will show you how...