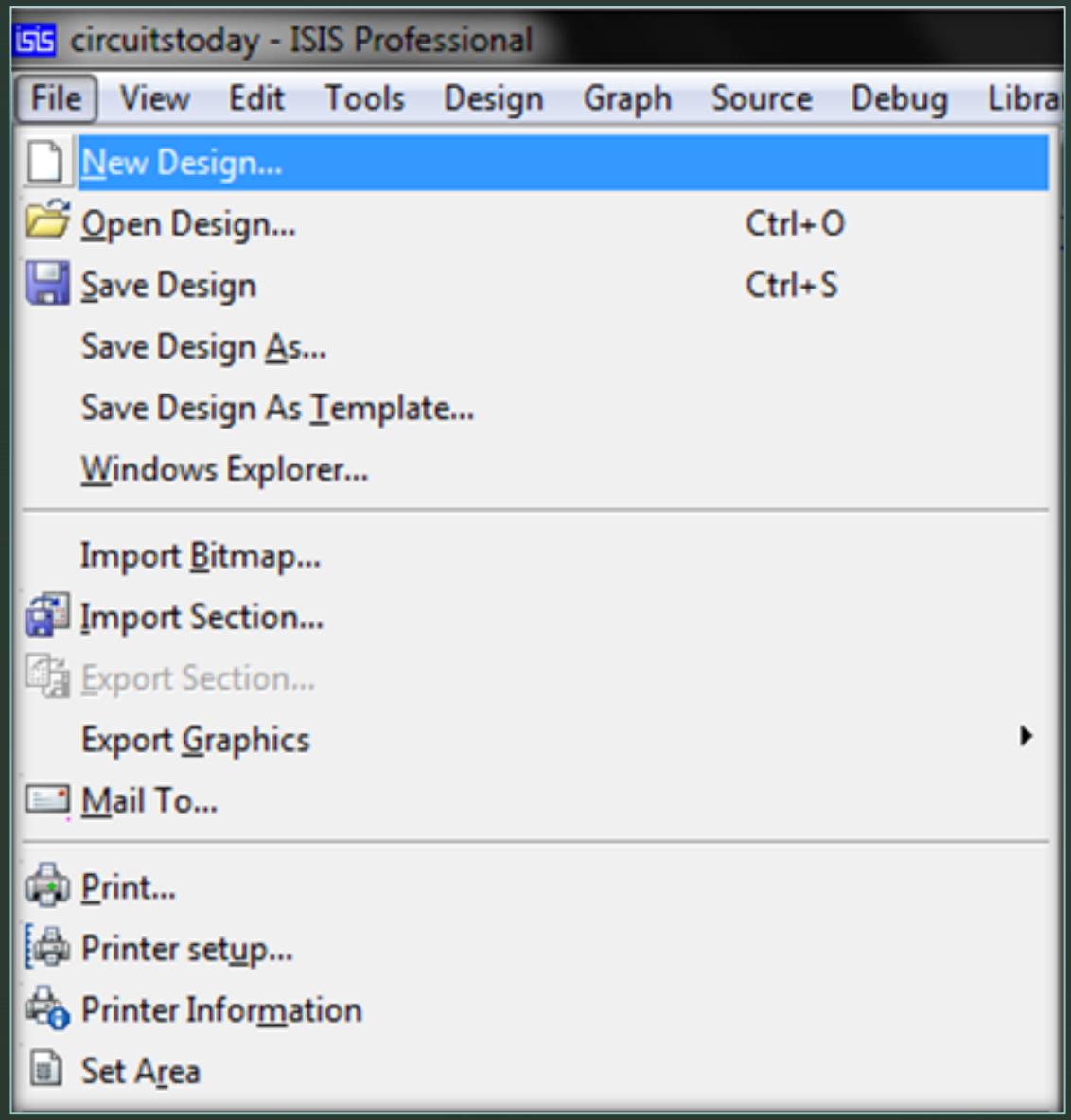
Introduction

Proteus

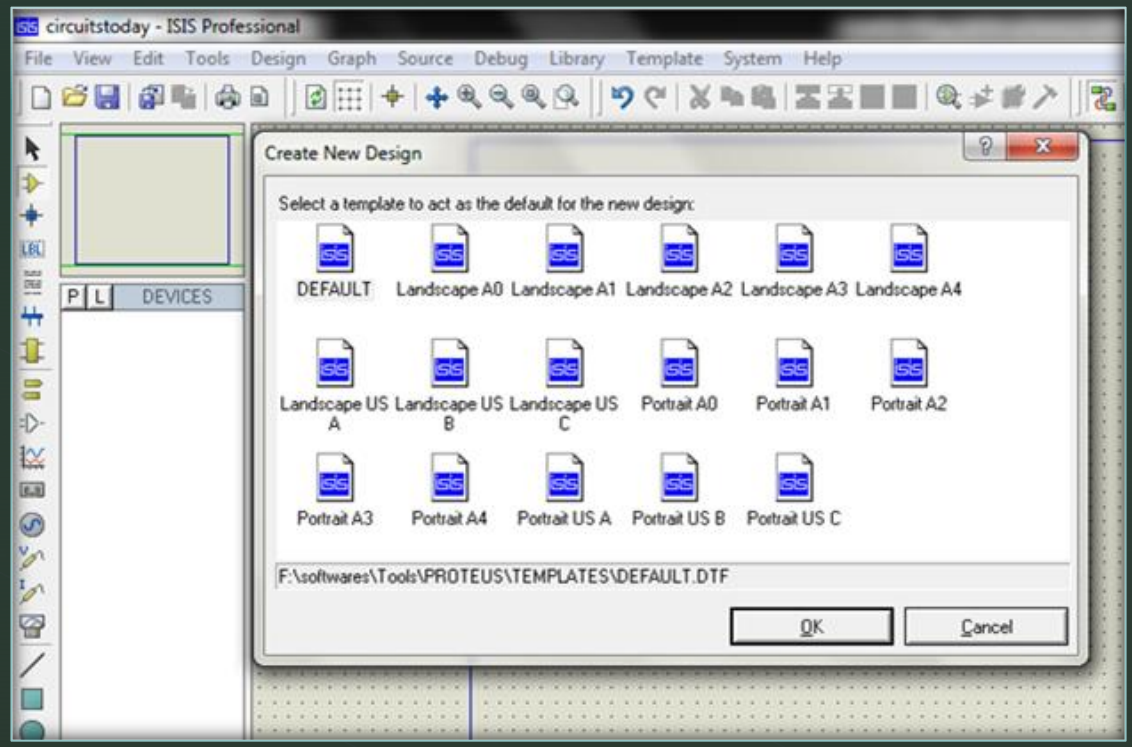
About Proteus

- It is a software suite containing schematic, simulation.
- ISIS is the software used to draw schematics and simulate the circuits in real time.The simulation allows human access during run time,thus providing real time simulation.
- C:\Program Files (x86)\Labcenter Electronics\Proteus 7 Professional\ISIS.exe

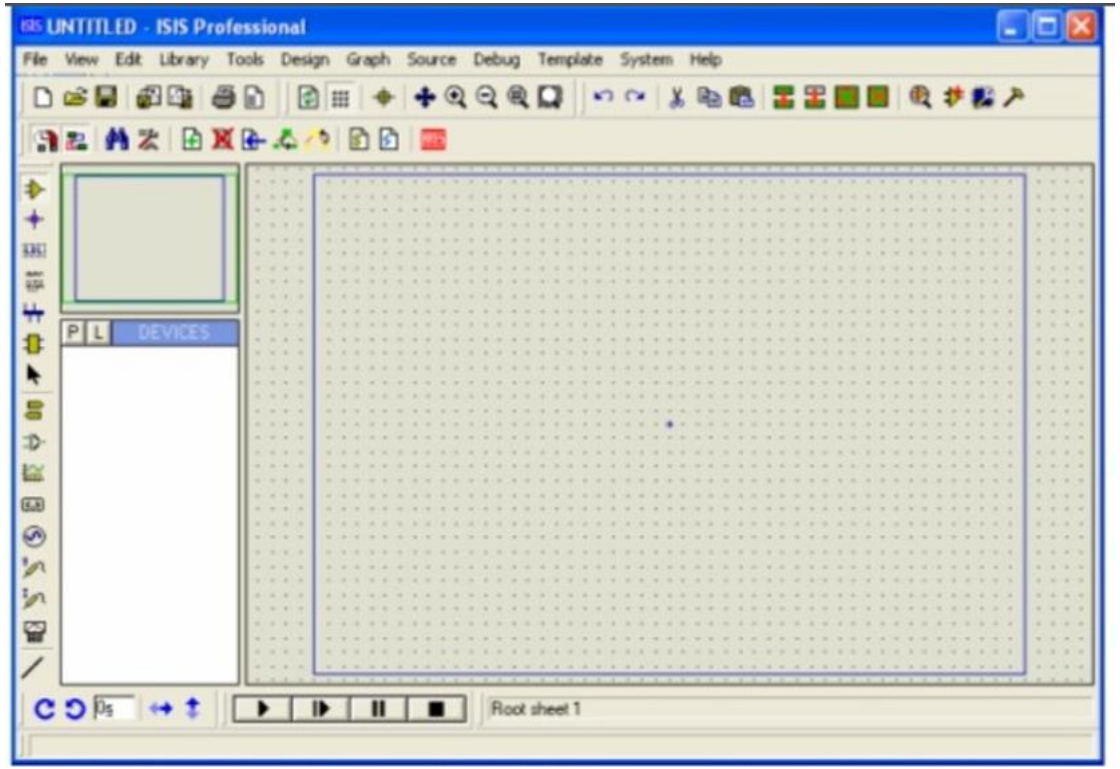
Starting New Design
Step 1: Open ISIS software and select New design in File menu



Step 2:


circuitstoday - ISIS Professional
File View Edit Tools Design Graph Source Debug Library Template System Help
DEVICES
Create New Design
Select a template to act as the default for the new design:
DEFAULT
Landscape A0
Landscape A1
Landscape A2
Landscape A3
Landscape A4
Landscape US A
Landscape US B
Landscape US C
Portrait A0
Portrait A1
Portrait A2
Portrait A3
Portrait A4
Portrait US A
Portrait US B
Portrait US C
F:\softwares\Tools\PROTEUS\TEMPLATES\DEFAULT.DTF
OK
Cancel

Step 3:Example of Proteus Software window



Proteus Tools

•Parts Browsing

1.Proteus has many models of electronic equipment such as logic

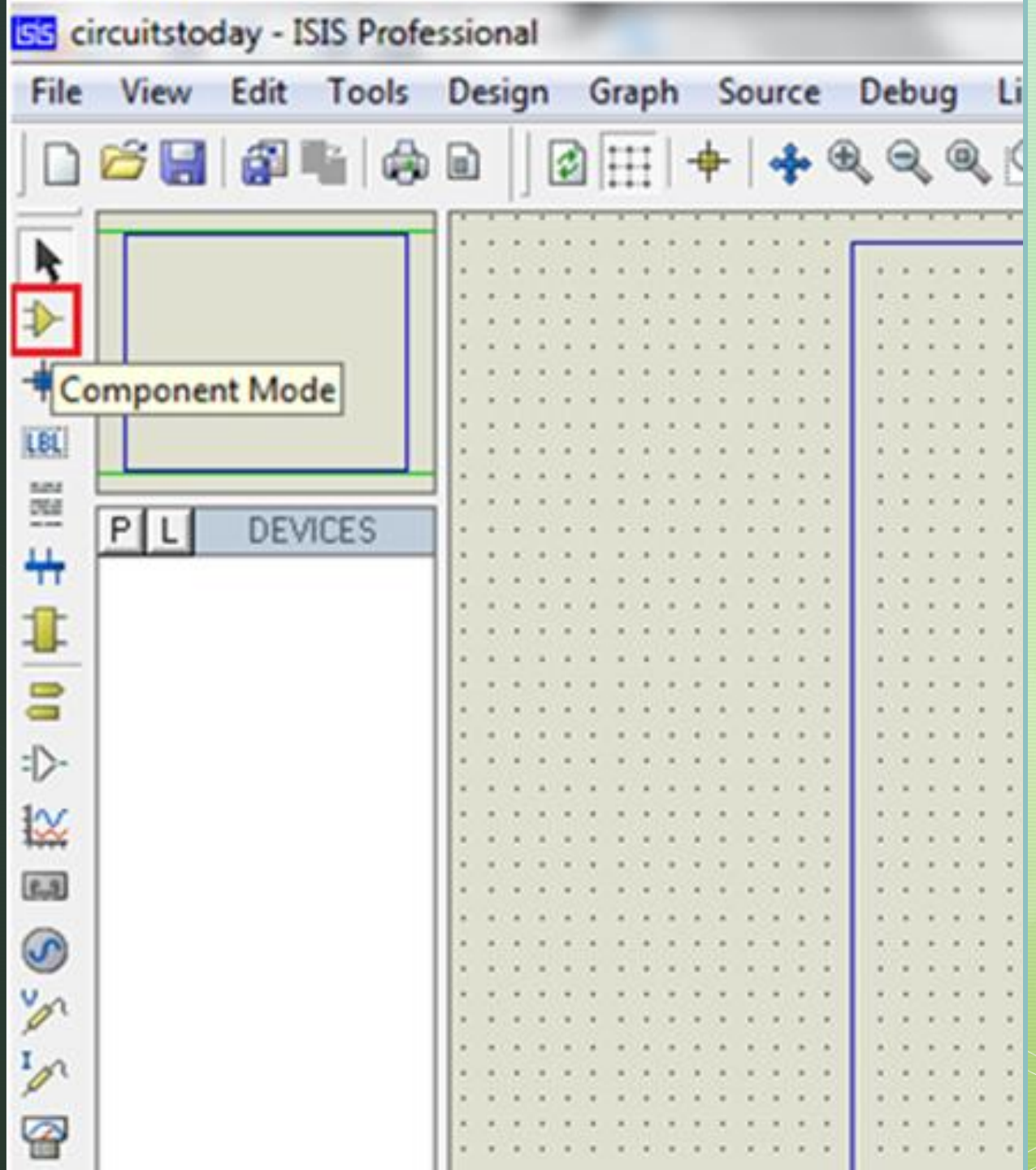
gates, switches, Leds etc.

2. To Select components, Click on the component mode button.

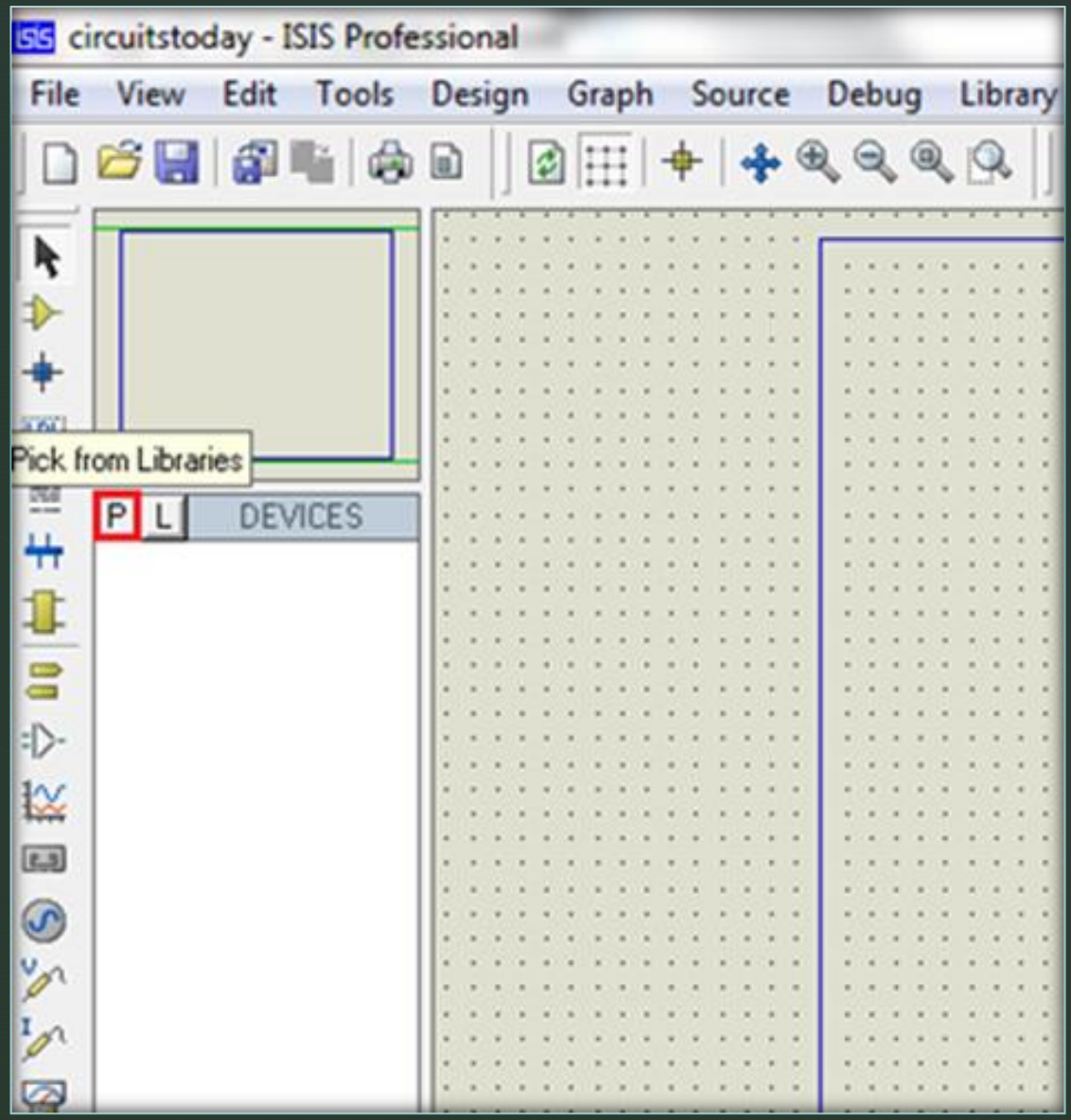
3. Click On Pick from Libraries. It shows the categories components available and a search option to enter the part name.

4. Select the components from categories or type the part name in Keywords text box.

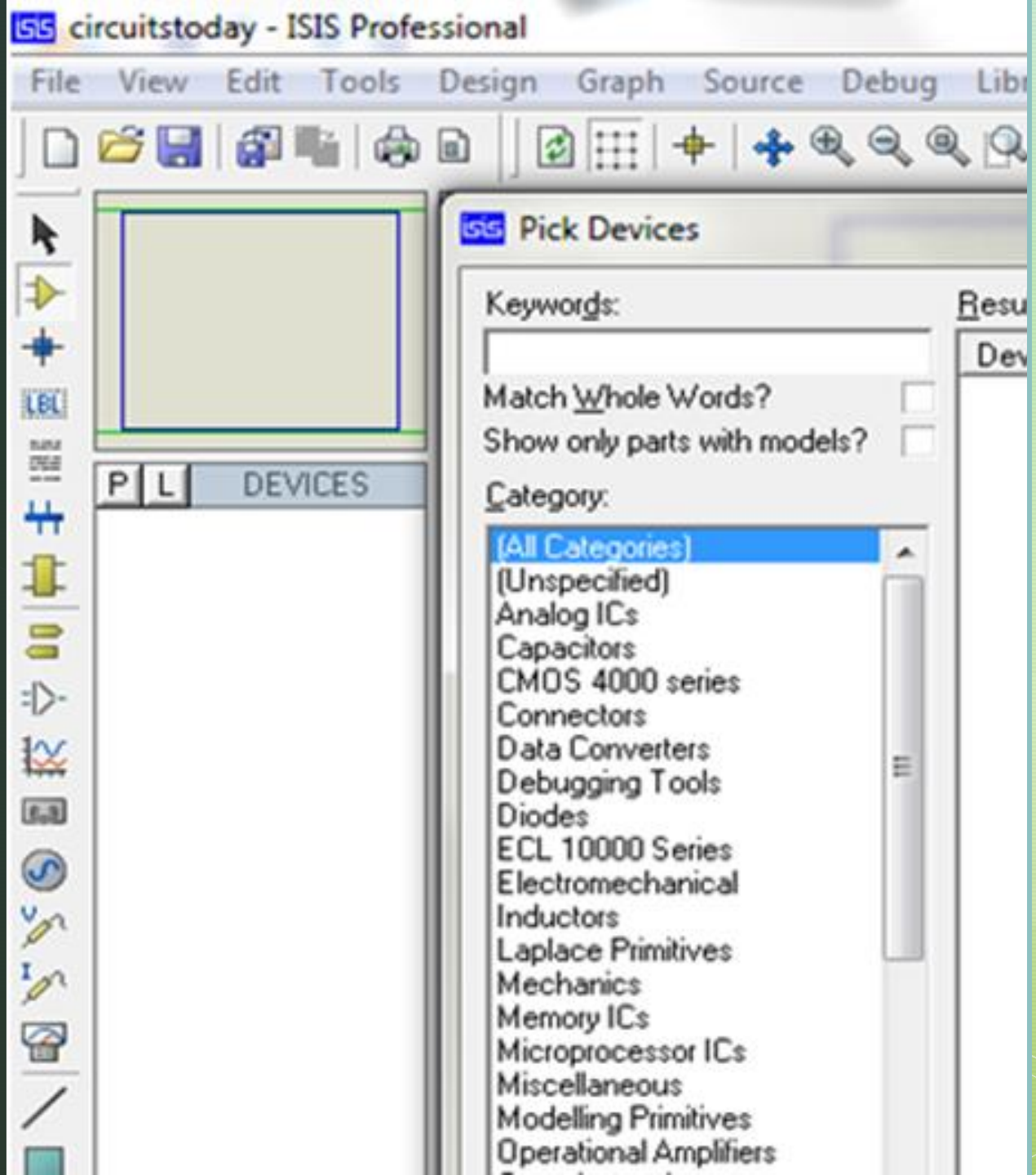
Step 4:To Select components, Click on the component mode button.

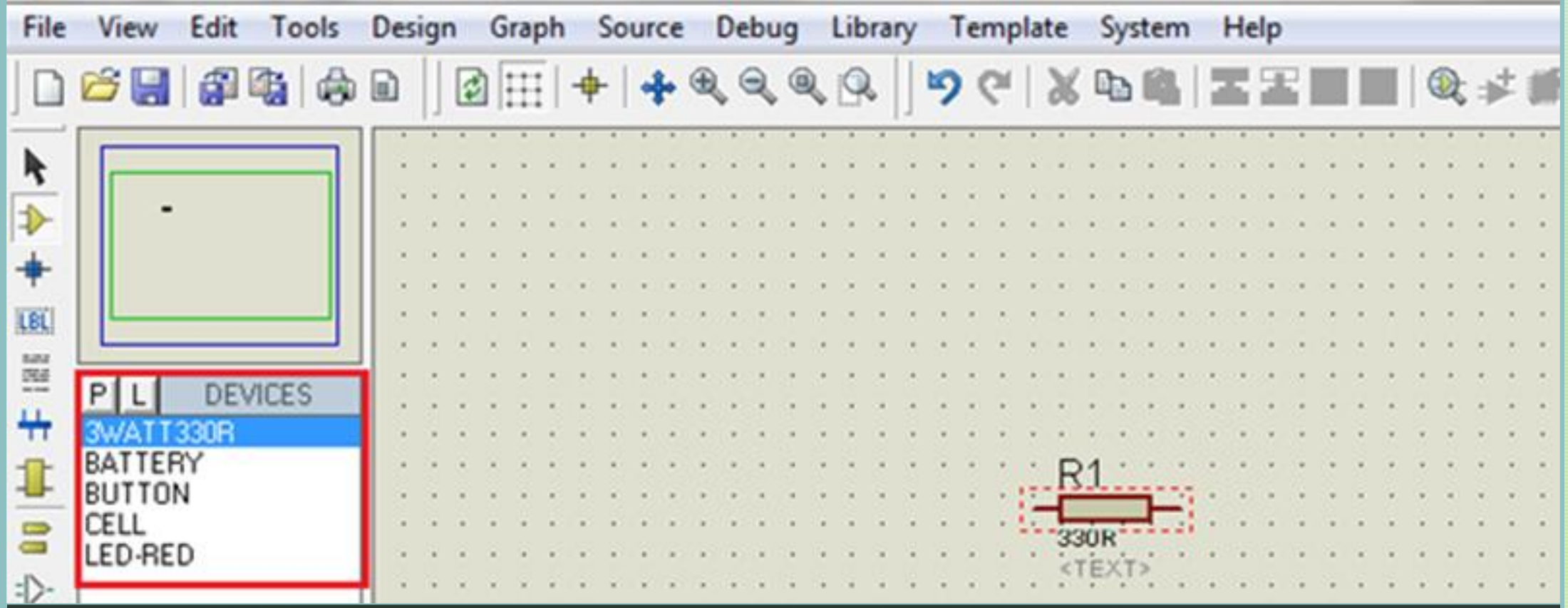


Step 5:Click On Pick from Libraries. It shows the categories of components available and a search option to enter the part name.



Step 6: Select the components from categories or type the part name in Keywords text box.

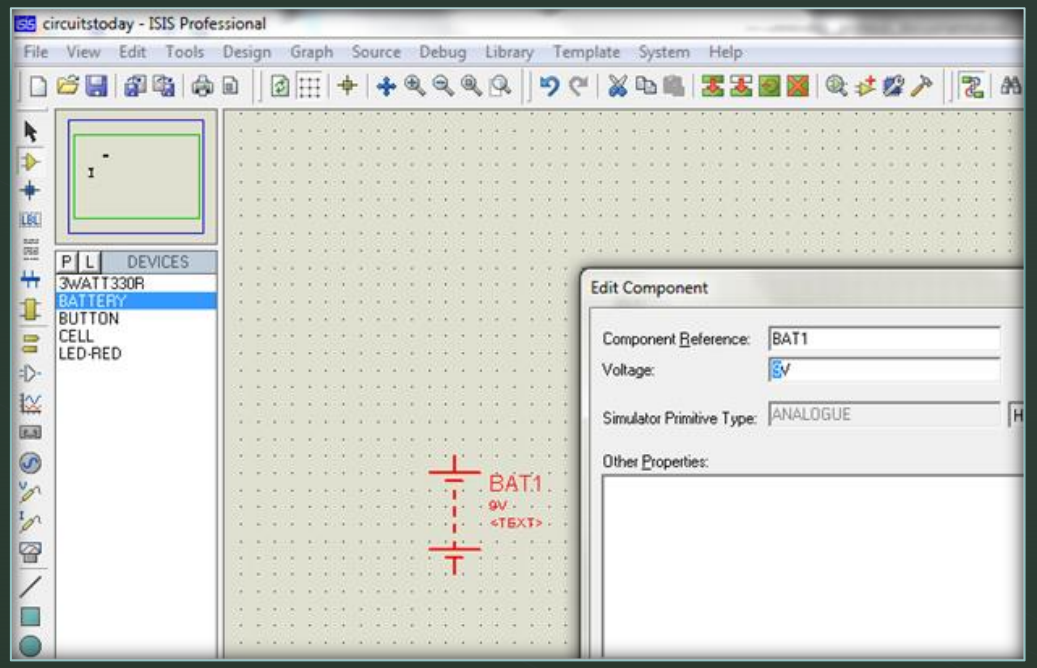




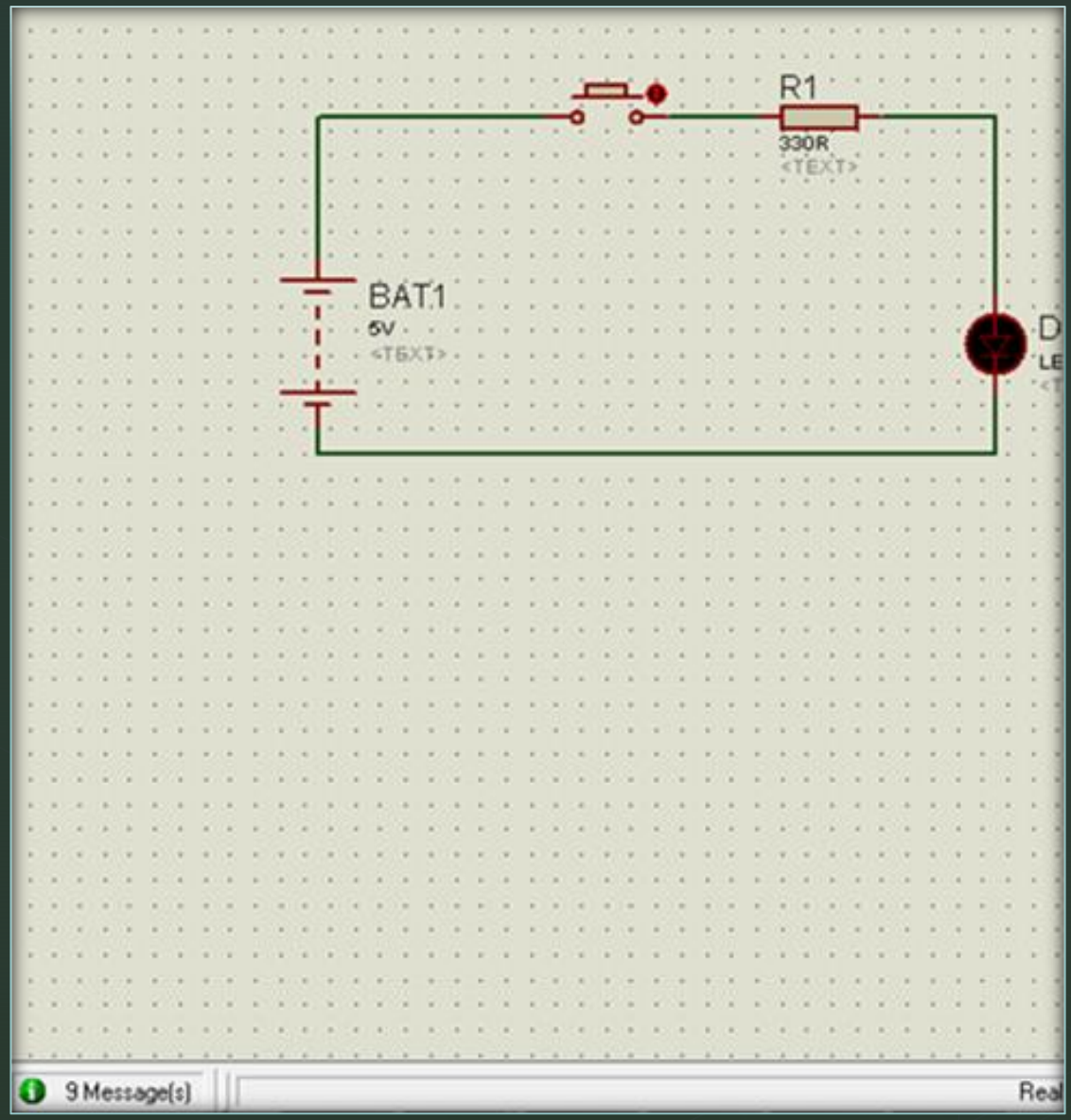
Step 7: The selected components will appear in the devices list. Select the component and place it in the design sheet by left-click.

Place all the required components and route the wires i.e, make connections.
Either selection mode above the component mode or component mode allows to connect through wires. Left click from one terminal to other to make connection. Double right-click on the connected wire or the component to remove connection or the component respectively.

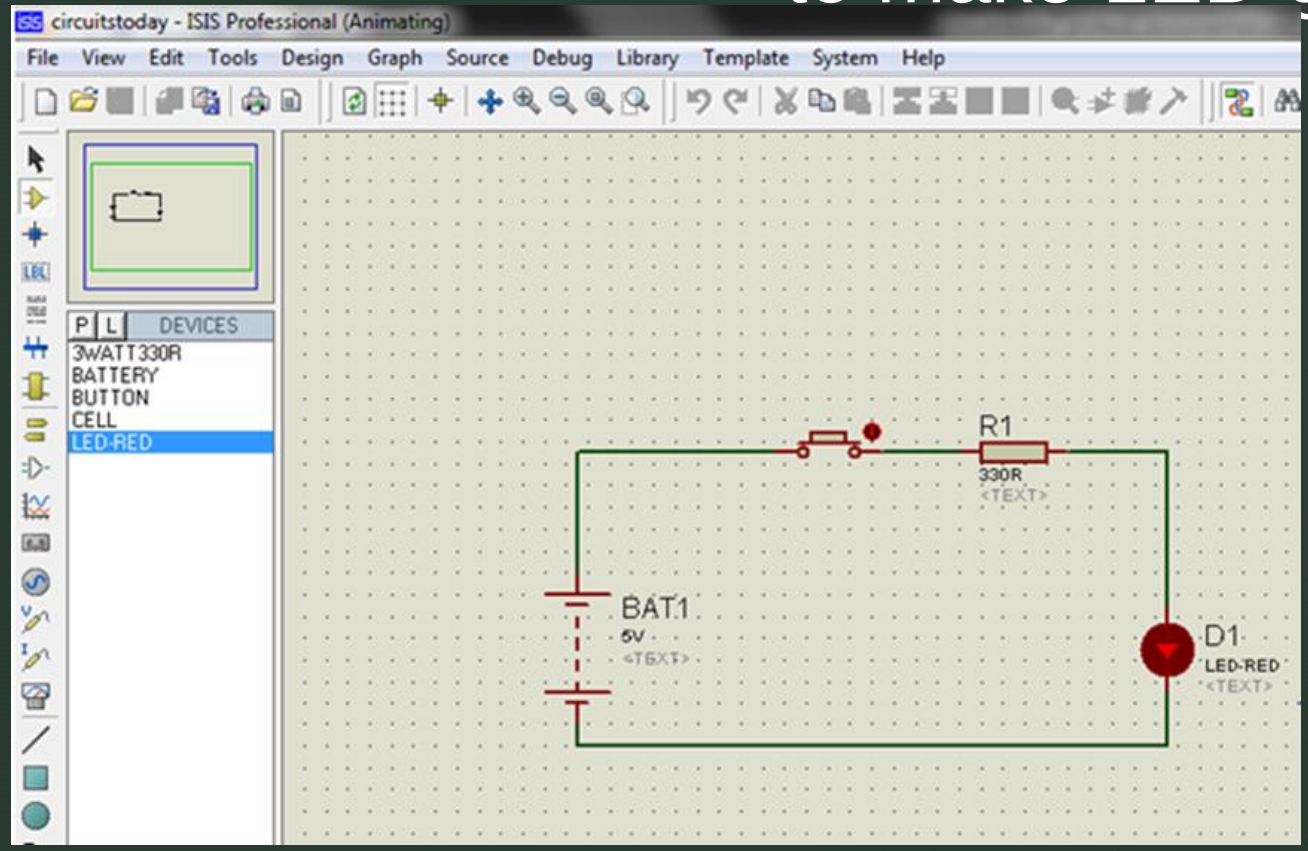
- Double click on the component to edit the properties of the components and click on Ok.

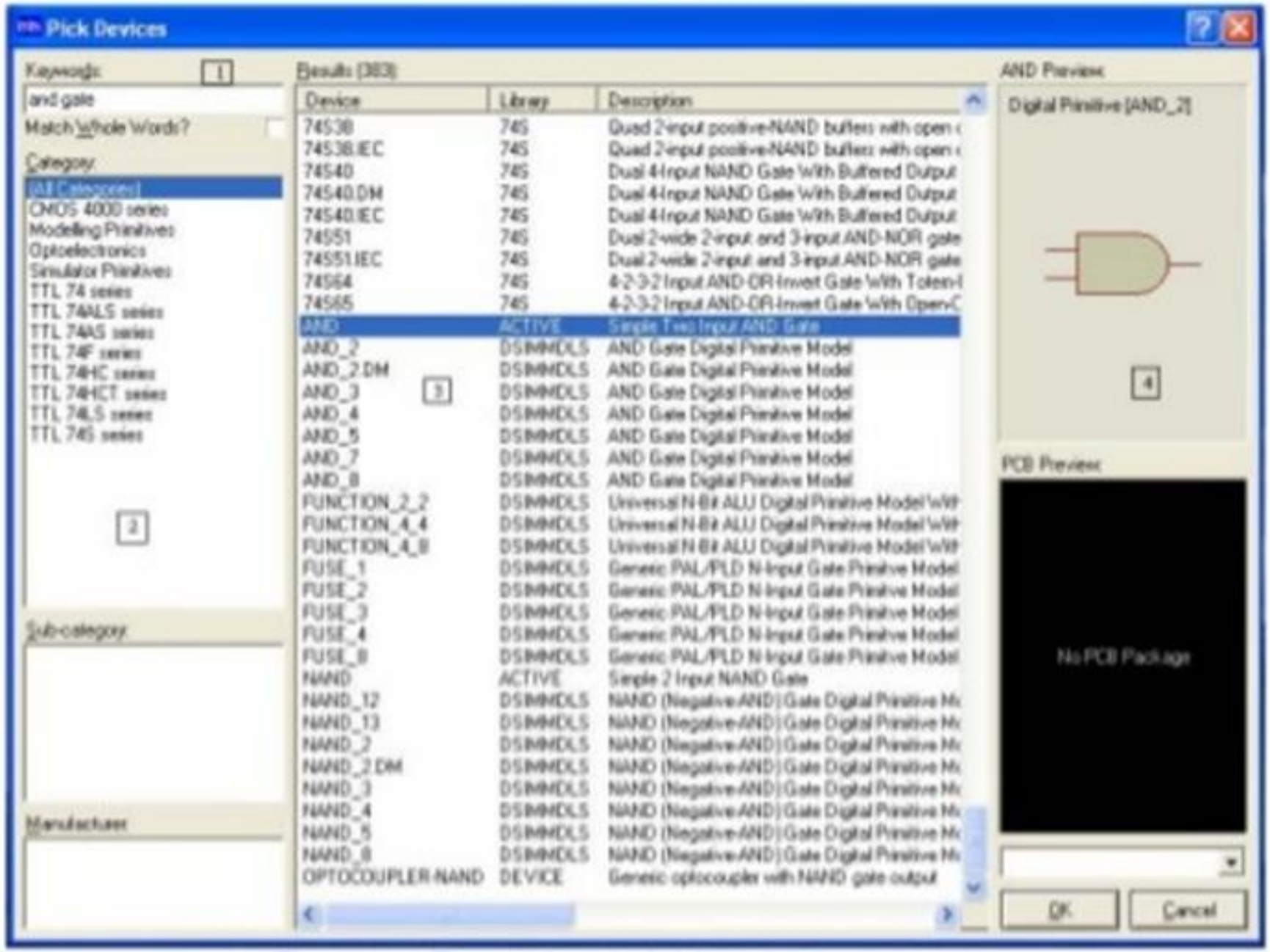


Step 8:After connecting the circuit,click on the play button to run the simulation.



In this example simulation, the button is depressed during simulation by clicking on it to make LED glow




Pick Devices
Keywords:
and gate
Match Whole Words?
Category
(All Categories)
CMOS 4000 series
Modelling Primitives
Optoelectronics
Simulator Primitives
TTL 74 series
TTL 74ALS series
TTL 74AS series
TTL 74F series
TTL 74HC series
TTL 74HCT series
TTL 74LS series
TTL 74S series
Sub-category
Manufacturer
Results (383)
Device
Library
Description
74S38
74S
Quad 2-input positive-NAND buffers with open
74S38.IEC
74S
Quad 2-input positive-NAND buffers with open
74S40
74S
Dual 4-Input NAND Gate With Buffered Output
74S40.DM
74S
Dual 4-Input NAND Gate With Buffered Output
74S40.IEC
74S
Dual 4-Input NAND Gate With Buffered Output
74S51
74S
Dual 2-wide 2-input and 3-input AND-NOR gate
74S51.IEC
74S
Dual 2-wide 2-input and 3-input AND-NOR gate
74S64
74S
4-2-3-2 Input AND-OR Invert Gate With Totem-
74S65
74S
4-2-3-2 Input AND-OR Invert Gate With Open-C
AND
ACTIVE
Simple Two Input AND Gate
AND_2
DSIMMDLS
AND Gate Digital Primitive Model
AND_2.DM
DSIMMDLS
AND Gate Digital Primitive Model
AND_3
DSIMMDLS
AND Gate Digital Primitive Model
AND_4
DSIMMDLS
AND Gate Digital Primitive Model
AND_5
DSIMMDLS
AND Gate Digital Primitive Model
AND_7
DSIMMDLS
AND Gate Digital Primitive Model
AND_8
DSIMMDLS
AND Gate Digital Primitive Model
FUNCTION_2_2
DSIMMDLS
Universal N-Bit ALU Digital Primitive Model
FUNCTION_4_4
DSIMMDLS
Universal N-Bit ALU Digital Primitive Model
FUNCTION_4_8
DSIMMDLS
Universal N-Bit ALU Digital Primitive Model
FUSE_1
DSIMMDLS
Generic PAL/PLD N-Input Gate Primitive Model
FUSE_2
DSIMMDLS
Generic PAL/PLD N-Input Gate Primitive Model
FUSE_3
DSIMMDLS
Generic PAL/PLD N-Input Gate Primitive Model
FUSE_4
DSIMMDLS
Generic PAL/PLD N-Input Gate Primitive Model
FUSE_8
DSIMMDLS
Generic PAL/PLD N-Input Gate Primitive Model
NAND
ACTIVE
Simple 2 Input NAND Gate
NAND_12
DSIMMDLS
NAND (Negative-AND) Gate Digital Primitive M
NAND_13
DSIMMDLS
NAND (Negative-AND) Gate Digital Primitive M
NAND_2
DSIMMDLS
NAND (Negative-AND) Gate Digital Primitive M
NAND_2.DM
DSIMMDLS
NAND (Negative-AND) Gate Digital Primitive M
NAND_3
DSIMMDLS
NAND (Negative-AND) Gate Digital Primitive M
NAND_4
DSIMMDLS
NAND (Negative-AND) Gate Digital Primitive M
NAND_5
DSIMMDLS
NAND (Negative-AND) Gate Digital Primitive M
NAND_8
DSIMMDLS
NAND (Negative-AND) Gate Digital Primitive M
OPTOCOUPLER-NAND
DEVICE
Generic optocoupler with NAND gate output
AND Preview
Digital Primitive [AND_2]
PCB Preview
No PCB Package
OK
Cancel
1
2
3
4