



**AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)**

**Department of CSE  
Computer-Aided Design and Drafting**

**Section: L  
Experiment No: # 05  
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Id: 22-49172-3**

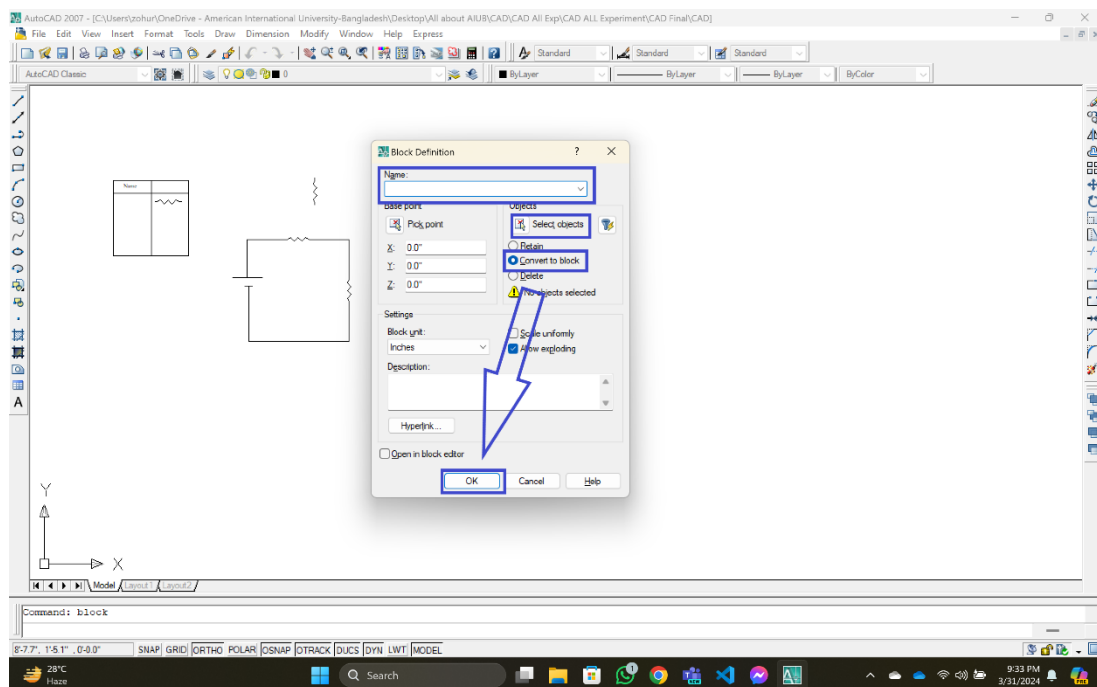
**Supervised by: MD. RAKIBUL ISLAM CHOWDHURY**

**Name of Experiment:** Introducing Electrical Symbols used for Electrical Circuit Design and drawing some Electrical Circuits using AutoCAD.

## **AutoCAD Comments:**

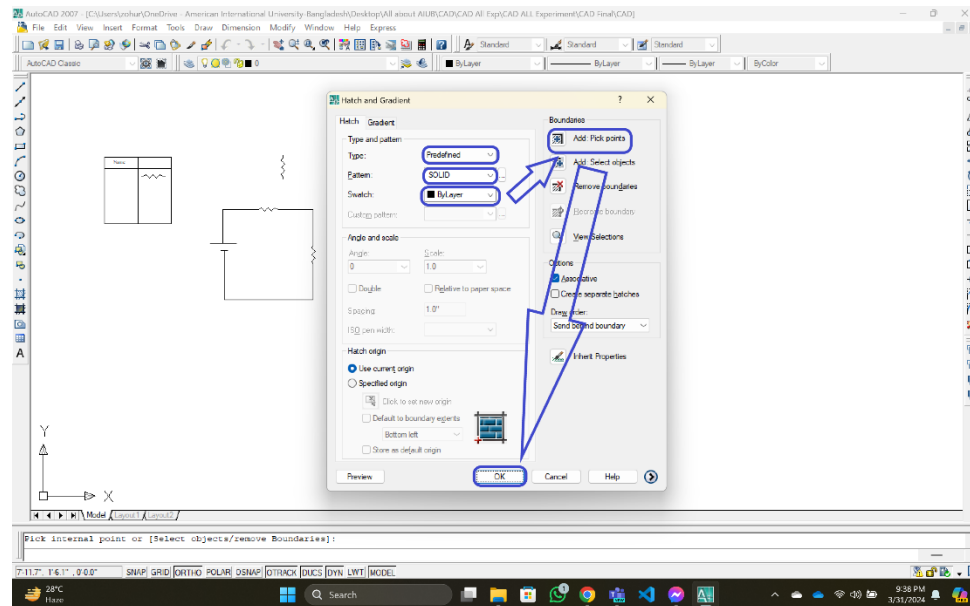
### **1. How To Create a Block in AutoCAD:**

**Block >> Enter >> input name >> Select objects >> Enter**



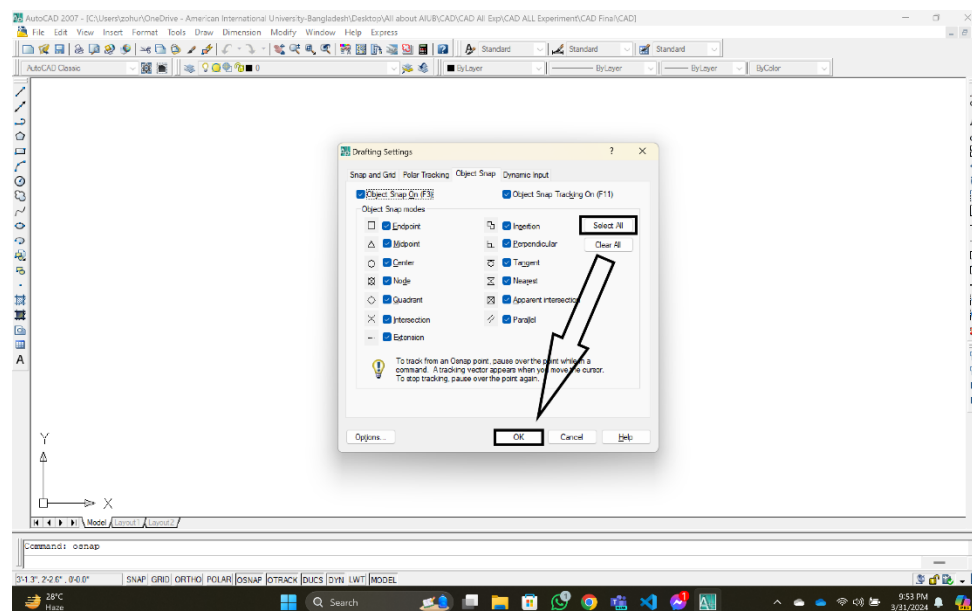
## 2. How To Hatch in AutoCAD:

**Hatch >> Enter >> Type: Predefined >> Pattern: SOLID >>  
Swatch: ByLayer >> Add: Pick points >> Select Boundary >> ok**



## 3. How To Osnap Settings in AutoCAD:

**Osnap >> Enter >> Select All >> ok.**



#### **4. How to Increase the Size of a Group Objects:**

Scale >> Enter >> Select Object >> Specify Base point >> Enter the  
Multiplier >> Enter.




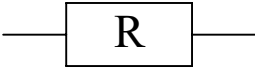
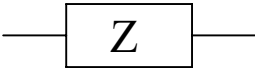


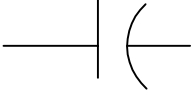
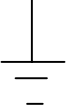
#### **5. How to Rotate:**



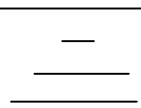
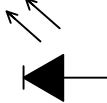
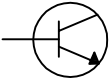
Rotate >> Enter >> Select object >> Specify Base point >> input Angle >>  
Enter.

#### **6. How to Extend Line:**

Ex >> enter >> Enter.

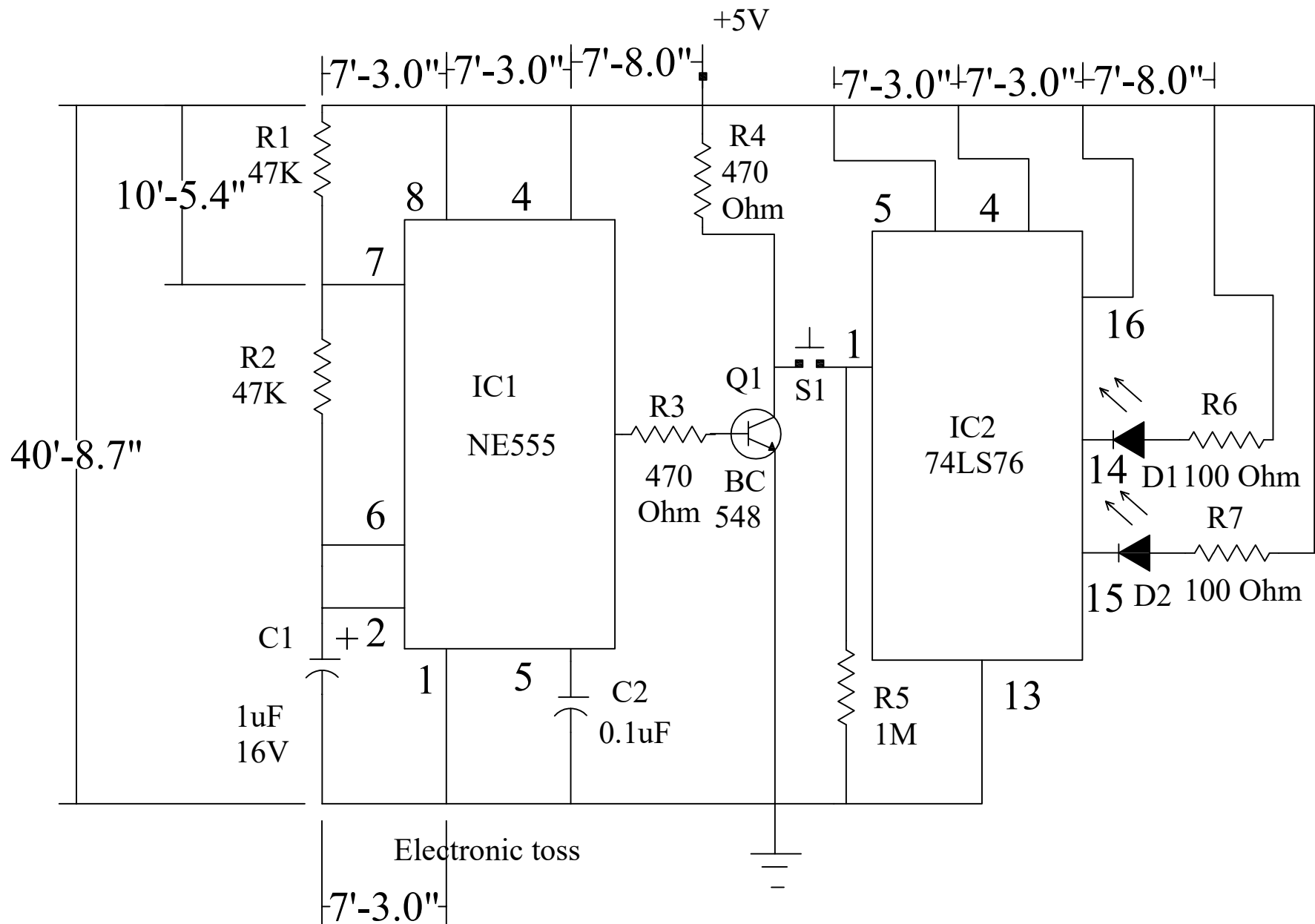
## List of Electrical Symbols

Name	Symbol
Direct Current	
Alternating Current	
Resistor	
Non-reactive Resistor	
Impedance	
Inductor	
Winding	
Capacitor	
Earth	

Name	Symbol
Line	
planned	
Underground Cable	
Diode	
Transistor	

Electrical Circuit

Full Id is 22-49172-3 and add Dimension 72 + 15 and 72 + 20



# Electrical Circuit

Full Id is 22-49172-3 and add Dimension 72 + 10, 72 + 60 and 72 + 120

