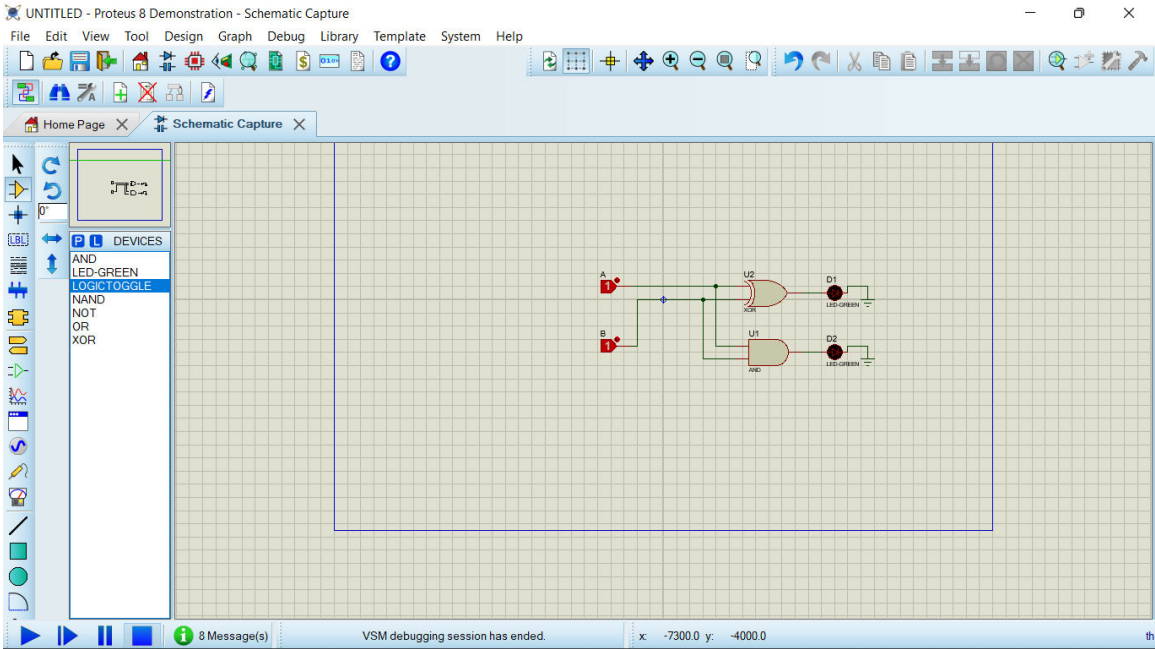


name : Asmaa Abed Al-Rahman Fares

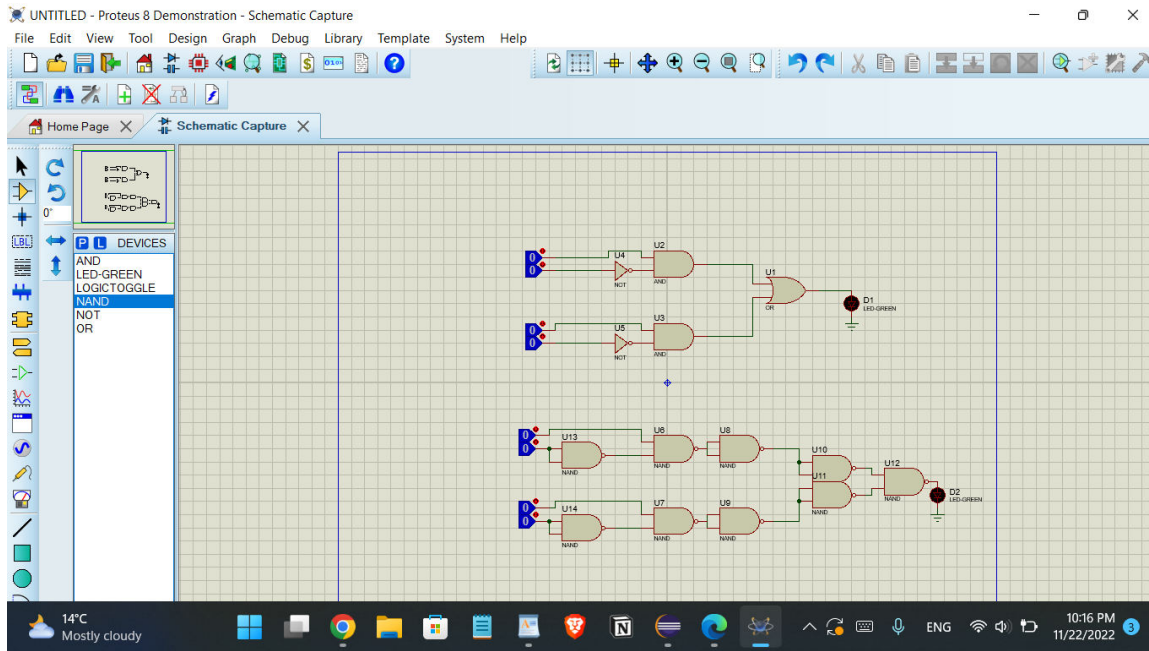
Std.no:1210084

prelab 4

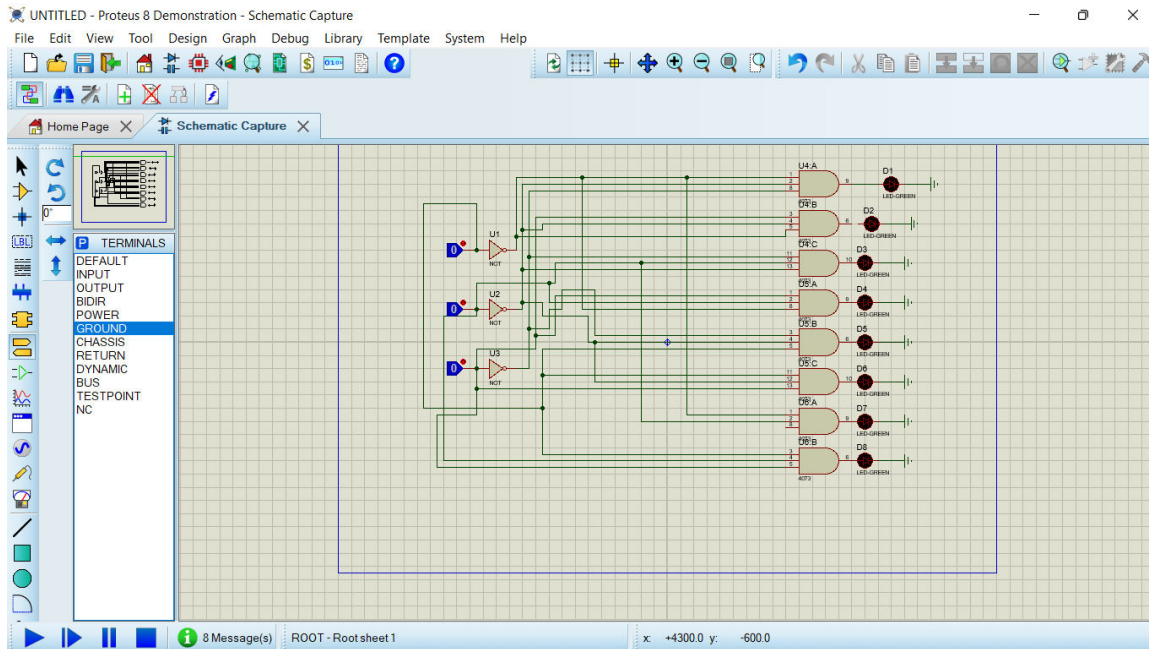
a) Build Full Adder using basic gates.



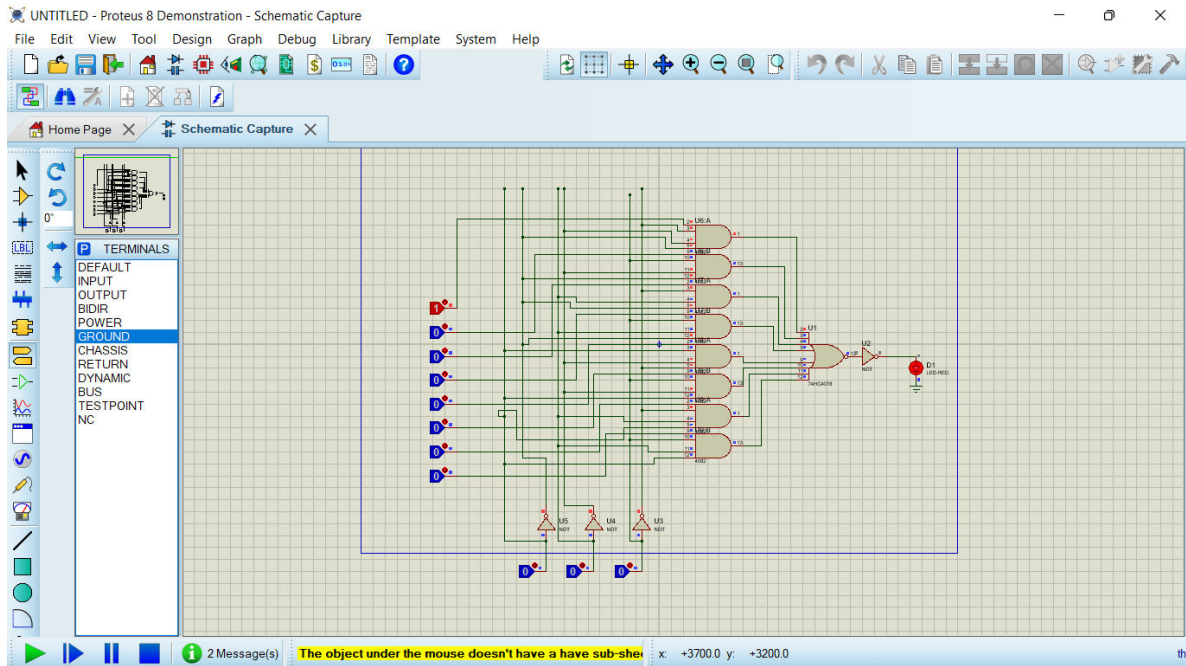
b) Build the bellow circuit using universal gates



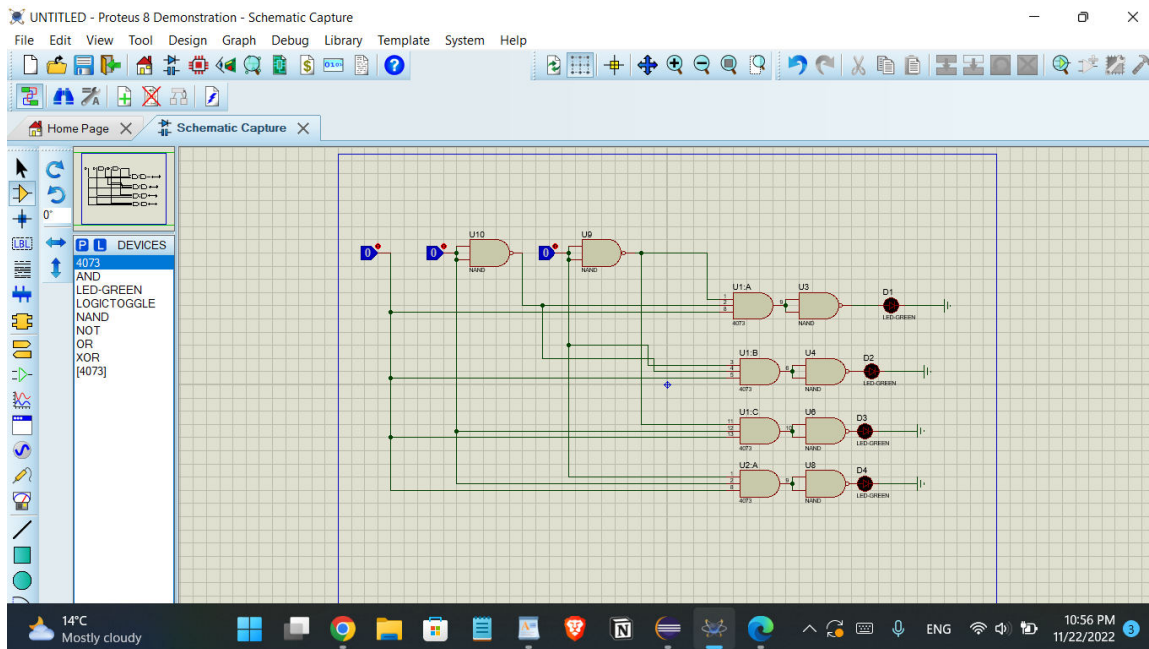
c) Build a 3x8 Decoder (active low) using basic gates.



d) Build an 8x1 Multiplexer using basic gates.



e) Build a 1x4 Demultiplexer using NAND gates



f) Use the 2x4 decoder to implement a 2 inputs function that acts like an equivalence gate

(XNOR): gives 1 on the output if both inputs are equal.

UNTITLED - Proteus 8 Demonstration - Schematic Capture

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DEVICES

- 4073
- 74155
- AND
- LED-GREEN
- LOGIC TOGGLE
- NAND
- NOT
- OR
- XOR
- [4073]

9 Message(s) COMPONENT U1.B, Value=4073, Module=<<NONE>, Device=4073, I x: -1500.0 y: +1000.0