list out the steps in designing ALU

- Step 1: Add the two input pins,

 0x0p two East facing input pins on the

 canvas 4 bits Each label A and B ensure

 that input is 4 bits
- Step 2: Add the adder I subtractor and gates Now we add the sub circuits created earlier select Circuits under main project handler tolder
- Step 3: Add the multipliers

 Take one or more inputs and generates

 a single output in logisim multiplexers and

 under plexer folder click multiplerer lear and

 drop two of them into lonvos
- Step 4: Add controls

 Prop too pins on the Canwas north facing
 with I data bit, Label them o and I Respectively
- Step 5: Add a splitter

 Next we add a splitter into our circuit that

 traces one line from the second multiplexer

 and split to 4 inputs to an OR gate for a

 4-bit ALU
- Step 6: Add another OR gate and NOT gate Now we add an or gate after the splitter which has a inputs. To right of the or gate and a NOT gate

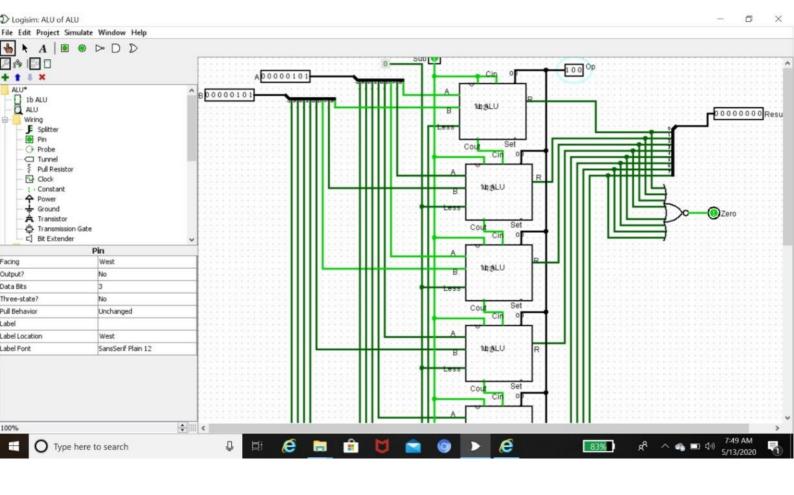
Neverna Nasayana Posiusi 1MS18(508)

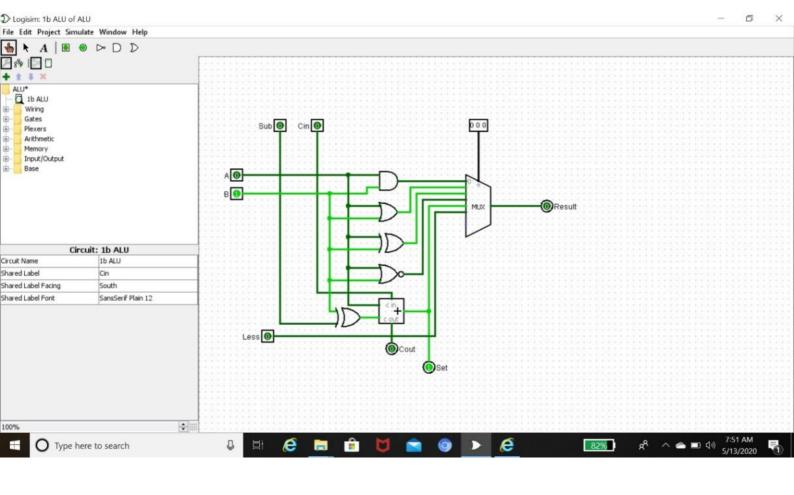
This Arrangement accounts for zero output when all the bits results in Zero.

The Not gate following The OR gate achieves this Finally add a Single bit pin aboter the NOT gate to store the result, label it Zero.

step 7: Add a result pin for the Mux

We handled the Zeroes Carrying from the Mux
but we also need to account for valid Combinations
inputs from A1B and the Control inputs





MAVEENA NARAYANA POOJARS

List out the steps in designing memory system

Step1: Add ram

Select a separate load and store operation for RAM

step 2: Add Counter

step 3: Connect counter clock, and Controlled Buffer to the RAM

Step 3: Add TTY.

To display Data Read on Memory

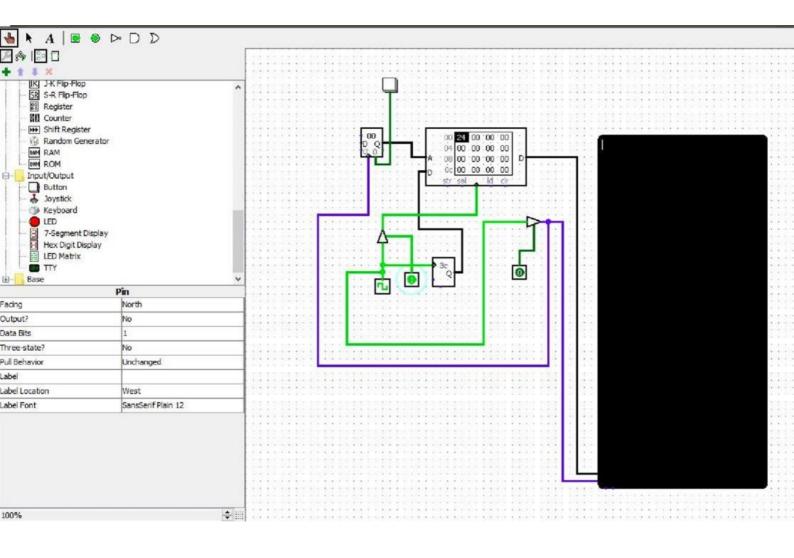
Step 4: Add Random Generator

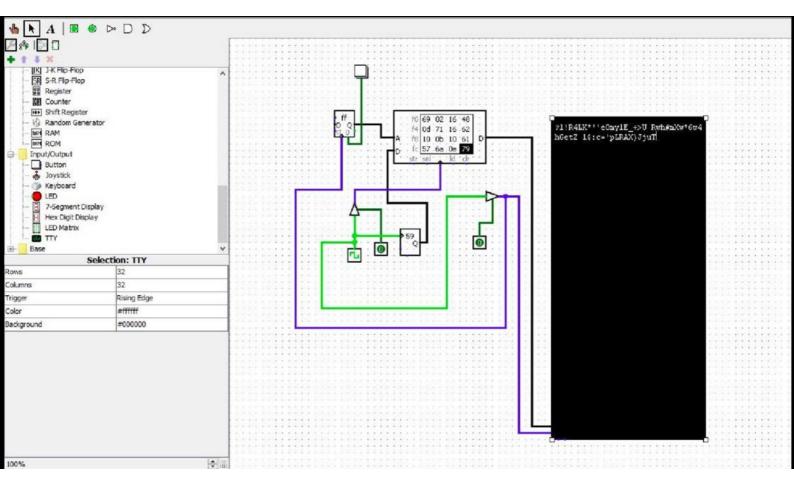
To Generate different address location

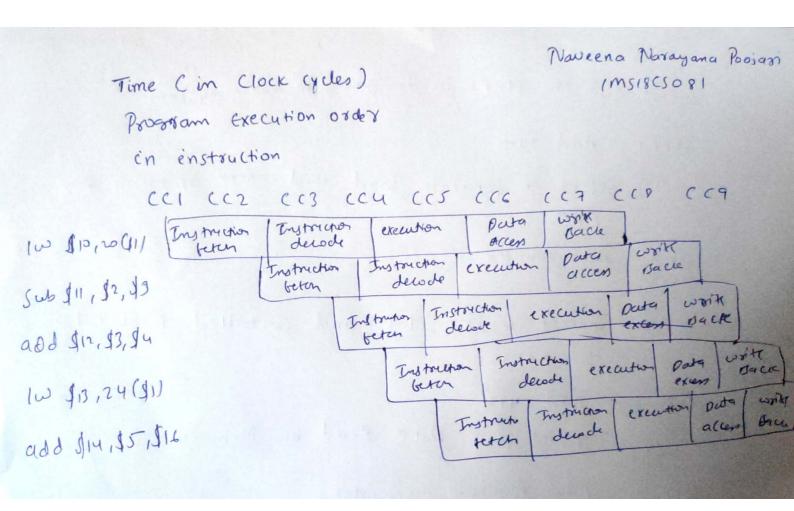
Add input and another Controlled Buffer to

the Random Generator

Step 5 : Add Button
Cotter Button to Counter







Naveena Nasayana Poorari 1MS18CS081 Time in clock cycles CC1 CC2 CC3 CC4 CC5 CC6 CC7 Program execution porder w \$10,00 (11) Em - 1 Reg - 1 - 1 Dy Dom; D- leg Sub \$ 11, \$2,\$3 IM D-Red D- OM OM - OF Reg add \$12, 13, 54 [In] - [-12] - [-12] - [-12] - [-12] Im D les D D O 100 10 18 (w \$13, zu, \$1) In The Die Die add \$14,55,96

