Ramaiah Institute of Technology (Autonomous Institute, Affiliated to VTU)

Lab-6

Department of CSE

Programme: B.E

Course: Computer Organization

Term: Jan to May 2019

Course Code: CS45

Activity VI:Designing memory system using Logisim simulator.

Name: MANAS.P.S	Marks: /10	Date:
USN: 1M318C8065	Signature of the Faculty:	

Objective: To simulate the writing operation on memory.

Simulator Description: Logisim is an educational tool for designing and simulating digital logic circuits. With its simple toolbar interface and simulation of circuits as you build them, it is simple enough to facilitate learning the most basic concepts related to logic circuits. With the capacity to build larger circuits from smaller sub circuits, and to draw bundles of wires with a single mouse drag, Logisim can be used (and is used) to design and simulate entire CPUs for educational purposes.

Activity to be performed by students:

List out the steps in designing memory system

Attached in Patasheet



lab-6

MARKS:

Name:	MANAS.P.S	Branch:	CSE
USN/Roll No. :	1M818C8065	Sem/Sec:	W'B'.
Subject :	Computer Organization	Subject Code:	CS45
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Activity II: To simulate writing operation on memory, and hence to design a memory & system using logisim simulator.

Objective: To simulate wenting operation on memory.

Activity to be performed by students:

list out the steps in designing memory system:

- 1. Add a RAM with separate load and store selected.
- 2. Add a country and connect & to A of the RAM.
- 3. Add a controller buffer and connect its off to the RAM.
- 4. Add a clock and connect to this if of the buffer.
- 5. Add a TTY unit with 32 nows and columns. Make a connection with the RAM.

- 6. Add a 1-bit vandom number generator, connuit
- 7. Add another controlled buffer, connect it to TTY- Also add an i/p pin to the buffer.
- 8. Connect of of the second buffer to the counter

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9. Connect a section to the country.

Snapshots:

Attached

Observations and Snapshots:

