Amrita Vishwa Vidyapeetham B.Tech. Degree CSE (AI) First Semester Computational Engineering and Networking

19AIE101-Elements of Computing Systems-1: Written Assignment 2 (Group-wise)

Max marks: 100

This evaluation aims at the following course coutcome CO2 Implement different combinational and sequential digital logic systems

Qn Question Marks No 1 Implement the following chip logic in HDL and test the chip using a hardware simulator. (The chip, its interfacce, and testing files are available in the project folder of nand2tetris software suite). Show the HDL code and output as a screenshot inside the word file or PDF or PPT. a) ALU 30 b) Inc16 5 Bit (1-bit register) 5 c) 10 d) Register (16-bit register) RAM8, RAM64,RAM512,RAM4K,RAM16K 50

Instructions

You must include an explanation for all the chips in your own words. The answers can be uploaded as a single word file or PDF or PPT (Don't upload HDL file). You can upload the file one time only. So kindly ensure that you are uploading the correct file or not. The first page of the file should contain Group's identity information.

Link to upload word/PDF/PPT (One member in the team can upload. Do not upload zip folder)

https://amritavishwavidyapeetham-

my.sharepoint.com/personal/g jyothishlal cb amrita edu/ layouts/15/onedrive.aspx?p=26&s=aHR0cHM6L y9hbXJpdGF2aXNod2F2aWR5YXBIZXRoYW0tbXkuc2hhcmVwb2ludC5jb20vOmY6L2cvcGVyc29uYWwvZ19qeW 90aGlzaGxhbF9jYl9hbXJpdGFfZWR1L0V1ampLMElhVmY1S2hNMjNaOXU4T0gwQlR5Qkp5bXNKNDFUdG1Pblha XzUycXc