

Lab 5.

Use **always** statement and write the code of 2-to-4 decoder (Decoder has 2 bit inputs and 4 bits output).

1. In the **module** file use **always** statement with **case** – **20 points**
2. Write the testbench – **20 points**
3. Use RTL viewer and show the drawing of 2-to-4 decoder. – **5 points**
4. Simulate the testbench and make the analyze of timing diagram – **10 points**
5. Run the code on the board. – **40 points**

Please, write the comments. – **5 points**