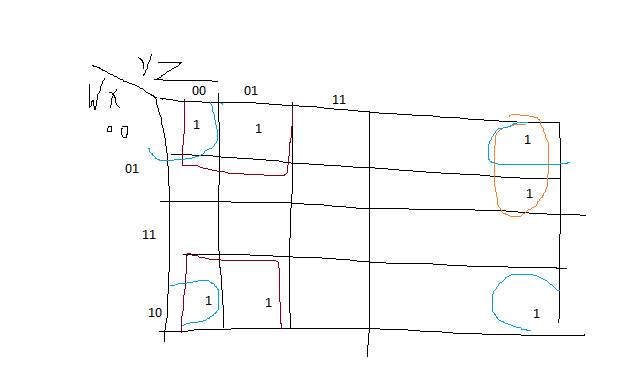
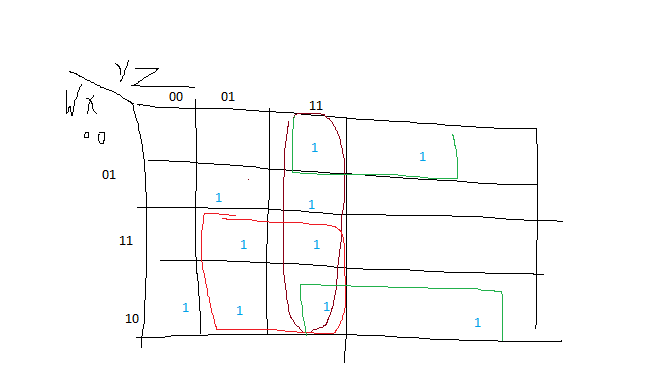
Lecture 5

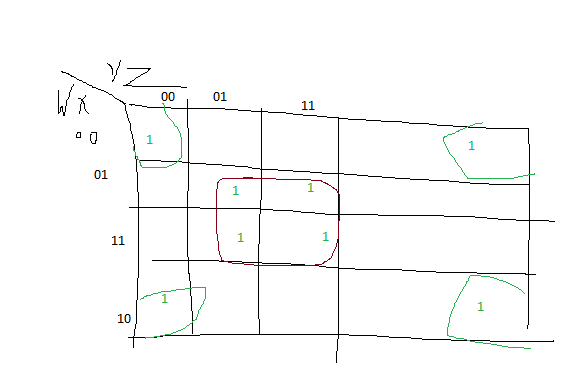


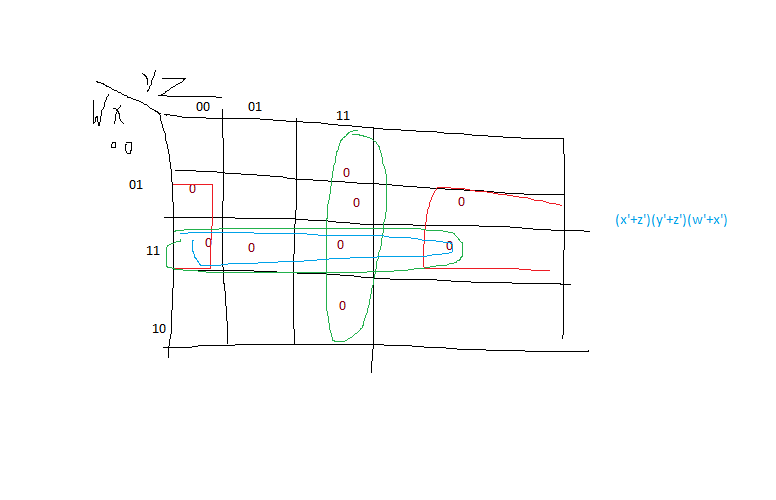
* **Prime Implicant – It’s a product term obtained by combining the maximum possible number of adjacent squares.**
* **Essential Prime Implicant- It occurs when a minterm in a cell is covered by only one prime implicant.**

**Example of prime implicant**

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**Essential Prime Implicants Example:-**

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N E S W

0 1 1 1

1 0 1 1

1 1 0 1

1 1 1 0