**LAB 01 – Assignment**

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**Task:** Sketch and simulate the Boolean function below on Proteus Design Suite by using minimum possible number of gates. Don’t do any simplifications.

* Export your design as .BMP format and paste the image into the box below.
* To Export as .BMP File: **File🡪Export Graphics🡪Export Bitmap.** And place it in the box below.

PS: Screenshots **will not** be accepted.

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* Fill out the truth table below based on the simulation results.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | C | D | F |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 |
| 0 | 1 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 | 1 |
| 1 | 1 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 1 | 0 |
| 1 | 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | 0 |