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**PRELAB:**

**Q1.** Fill in the Truth Table below for an AND gate:

|  |  |  |
| --- | --- | --- |
| **A** | **B** | **C** |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

**Q2.** What does the .bdf file extension stand for?

Block Design Format

**LAB:**

**2.0 Fill in the Truth Table for *lab1step1*:**

|  |  |  |
| --- | --- | --- |
| **A** | **B** | **C** |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

Logic Expression: AB = C

**4.0 Fill in the Truth Table for *lab1step2*:**

|  |  |  |  |
| --- | --- | --- | --- |
| **W** | **X** | **Y** | **Z** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 |

Logic Expression: !wx!y+w!x!y+wxy = z

**4.0 Fill in the Truth Table for *lab1step3*:**

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

Logic Expression: !A!BC + !ABC + A!BC + AB!C = F