| **EXPERIMENT NO.** | **TITLE** | **LAB OUTCOMES** |
| --- | --- | --- |
| **1** | **Study of PC Motherboard Technology (South Bridge and North Bridge). Internal Components and Connections used in Computer System** | **1** |
| **AIM:** | *To understand PC Assembly by studying different components mounted on motherboard. To identify the different Bridges and their role in computer System. To comprehend connections of diverse components* | |

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| --- | --- | --- |
| **2** | 1**. Verify the truth table of various logic gates**  **(basic and universal gates)**  **2. Realize Half adder and Full adder**  **3. Implementation of MUX and DeMUX** | **3** |
| **AIM:** | *To understand the implementation of combinational circuits* | |

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| **3** | **Program for 16 bit BCD addition** | **3** |
| **AIM:** | *To understand the Arithmetic and logical operations in 8086 Assembly language Programming* | |

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| --- | --- | --- |
| **4** | **1.Program to count number of 1’s and 0’s in**  **a given 8 bit number**  **2.Program to find even and odd numbers**  **from a given list** | **4** |
| **AIM:** | *To understand the Loop Operations in 8086 Assembly language Programming* | |

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| --- | --- | --- |
| **5** | **Check whether a given string is a**  **Palindrome or not.** | **5** |
| **AIM:** | *To understand String and Procedure in 8086 Assembly language Programming* | |

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| --- | --- | --- |
| **6** | **Interfacing Seven Segment Display** | **6** |
| **AIM:** | *To Comprehend the Interfacing with 8086 Microprocessor* | |