# EXPERIMENT NO.: - 9

**AIM*:***To study Binary to BCD code.

**TRUTH TABLE**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Binary | | | | BCD | | | | |
| W | X | Y | Z | A | B | C | D | E |
| 0 | 0 | 0 | 0 |  |  |  |  |  |
| 0 | 0 | 0 | 1 |  |  |  |  |  |
| 0 | 0 | 1 | 0 |  |  |  |  |  |
| 0 | 0 | 1 | 1 |  |  |  |  |  |
| 0 | 1 | 0 | 0 |  |  |  |  |  |
| 0 | 1 | 0 | 1 |  |  |  |  |  |
| 0 | 1 | 1 | 0 |  |  |  |  |  |
| 0 | 1 | 1 | 1 |  |  |  |  |  |
| 1 | 0 | 0 | 0 |  |  |  |  |  |
| 1 | 0 | 0 | 1 |  |  |  |  |  |
| 1 | 0 | 1 | 0 |  |  |  |  |  |
| 1 | 0 | 1 | 1 |  |  |  |  |  |
| 1 | 1 | 0 | 0 |  |  |  |  |  |
| 1 | 1 | 0 | 1 |  |  |  |  |  |
| 1 | 1 | 1 | 0 |  |  |  |  |  |
| 1 | 1 | 1 | 1 |  |  |  |  |  |

|  |  |
| --- | --- |
| **K-MAP FOR A** | **K-MAP FOR B** |

|  |  |
| --- | --- |
| **K-MAP FOR C** | **K-MAP FOR D** |

|  |
| --- |
| **K-MAP FOR E** |

**CIRCUIT:**

**CONCLUSION:**