LOGIC GATES:

1.OR gate is used to set the bit for a given digits .put that specific bit is one and other all are zero’s

|  |  |  |
| --- | --- | --- |
| A | B | A|B |
| 0 | 0 | 0 |
| 1 | 0 | 1 |
| 0 | 1 | 1 |
| 1 | 1 | 1 |

2.AND gate is used to clear the bit for a given digits. Put that is specific bit zero and other all are one’s

|  |  |  |
| --- | --- | --- |
| A | B | A&B |
| 0 | 0 | 0 |
| 1 | 0 | 0 |
| 0 | 1 | 0 |
| 1 | 1 | 1 |

3. Hexa value separate that into four bits and find the vale and that is represented as 0X if the values is above 9 represented as A,B,CD,E,F the values are 10,11,12,13,14,15

|  |  |  |
| --- | --- | --- |
| A | B | A^B |
| 0 | 0 | 0 |
| 1 | 0 | 1 |
| 0 | 1 | 1 |
| 1 | 1 | 0 |

4. NOT ( ! ) gate change the bit

|  |  |
| --- | --- |
| A | B |
| 0 | 1 |
| 1 | 0 |