**1 BIT COMPARATOR**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Input** | | | **A<B** | **A=B** | **A>B** |
| **A=0** | | **0** | **0** | **1** | **0** |
| **C:\Users\A-One\Desktop\breadboard\exp8\1bit\00.JPG** | | | | | |
| **0** | **1** | | **1** | **0** | **0** |
| **C:\Users\A-One\Desktop\breadboard\exp8\1bit\01.JPG** | | | | | |
| **1** | **0** | | **0** | **0** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\1bit\10.JPG** | | | | | |
| **1** | **1** | | **0** | **1** | **0** |
| **C:\Users\A-One\Desktop\breadboard\exp8\1bit\11.JPG** | | | | | |

|  |  |  |
| --- | --- | --- |
| **2 BIT COMPARATOR** | | |
| **Input** | | **Output** |
| **A** | **B** | **A=B** |
| **00** | **00** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0000(A=B).JPG** | | |
| **00** | **01** | **0** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0001(A=B).JPG** | | |
| **01** | **01** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0101(A=B).JPG** | | |
| **10** | **01** | **0** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\1001(A=B).JPG** | | |
| **10** | **10** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\1110(A-B).JPG** | | |
| **11** | **11** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\1111(A=B).JPG** | | |
| **A** | **B** | **B>A** |
| **00** | **01** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0001(B-A).JPG** | | |
| **00** | **10** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0010(B-A).JPG** | | |
| **01** | **00** | **0** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0100(B-A).JPG** | | |
| **01** | **10** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0110(B-A).JPG** | | |
| **11** | **10** | **0** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\1110(B-A).JPG** | | |
| **A** | **B** | **A>B** |
| **11** | **10** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\1110(A-B).JPG** | | |
| **10** | **01** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\1001(A-B).JPG** | | |
| **10** | **00** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\1000(A-B).JPG** | | |
| **01** | **11** | **0** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0111(A-B).JPG** | | |
| **01** | **00** | **1** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0100(A-B).JPG** | | |
| **00** | **10** | **0** |
| **C:\Users\A-One\Desktop\breadboard\exp8\2bit\0010.JPG** | | |