**Test vectors for Final Project**

**For 8 x 8 multiplier**

**Regular mode**

1. 0 x 0 = 0 X
2. 0 x 255 = 0 X
3. 1 x 255 = 255 (00000001 x 11111111 = 0000000011111111) X
4. 12 x 29 = 348 (00001100 x 00011101 = 0000000101011100) X
5. 19 x 91 = 1729 (00010011 x 01011011 = 0000011011000001) \*\* Taxicab number X
6. 83 x 97 = 8051 (01010011 x 01100001 = 0001111101110011) X
7. 170 x 204 = 34680 (10101010 x 11001100 = 1000011101111000) X
8. 255 x 255 = 65025 (11111111 x 11111111 = 1111111000000001)

**Test mode**

1. all 1’s
2. alternating 0's and 1's i.e., 010101...