|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test  ID | x | y | sel | Carry  Out  Expected | Overflow  Expected | Sum  Expected | Carry  Out  Observed | Overflow  Observed | Sum  observed | Pass  or  Fail |
| 1 | 6’b00\_0001 | 6’b00\_0100 | 0 | 1’b0 | 1’b0 | 6’b00\_0101 | 1’b0 | 1’b0 | 6’b00\_0101 | Pass |
| 2 | 6’b00\_0000 | 6’b00\_0000 | 0 | 1’b0 | 1’b0 | 6’b00\_0000 | 1’b0 | 1’b0 | 6’b00\_0000 | Pass |
| 3 | 6’b00\_0001 | 6’b00\_0100 | 1 | 1’b0 | 1’b0 | 6’b11\_1101 | 1’b0 | 1’b0 | 6’b11\_1101 | Pass |
| 4 | 6’b00\_0000 | 6’b00\_0000 | 1 | 1’b1 | 1’b0 | 6’b00\_0000 | 1’b1 | 1’b0 | 6’b00\_0000 | Pass |
| 5 | 6’b11\_1111 | 6’b00\_0001 | 0 | 1’b1 | 1’b0 | 6’b00\_0000 | 1’b1 | 1’b0 | 6’b00\_0000 | Pass |
| 6 | 6’b11\_1111 | 6’b00\_0001 | 1 | 1’b1 | 1’b0 | 6’b11\_1110 | 1’b1 | 1’b0 | 6’b11\_1110 | Pass |
| 7 | 6’b01\_0000 | 6’b01\_0000 | 0 | 1’b0 | 1’b1 | 6’b10\_0000 | 1’b0 | 1’b1 | 6’b10\_0000 | Pass |
| 8 | 6’b11\_1000 | 6’b10\_0111 | 0 | 1’b1 | 1’b1 | 6’b01\_1111 | 1’b1 | 1’b1 | 6’b01\_1111 | Pass |

Lab C