Counter_00_99_BCD_HEX_Display Flowchart

Start

↓

Initialize Program Constants and Variables

↓

Configure Hex Displays

↓ ← **B**

Count = $00 (BCD)

↓ ← Yes

Extract MSB from Count

↓

Display Digit on Hex Display

↓

Delay a few milliseconds

↓

A

A

↓

Extract LSB from Count

↓

Display Digit on Hex Display

↓

Delay a few milliseconds

↓

Add 1 to the Count

↓

Adjust Count for Valid BCD value

↓

Count <= $99 (BCD)

Yes → (back to Count = $00 path)

No ↓

B
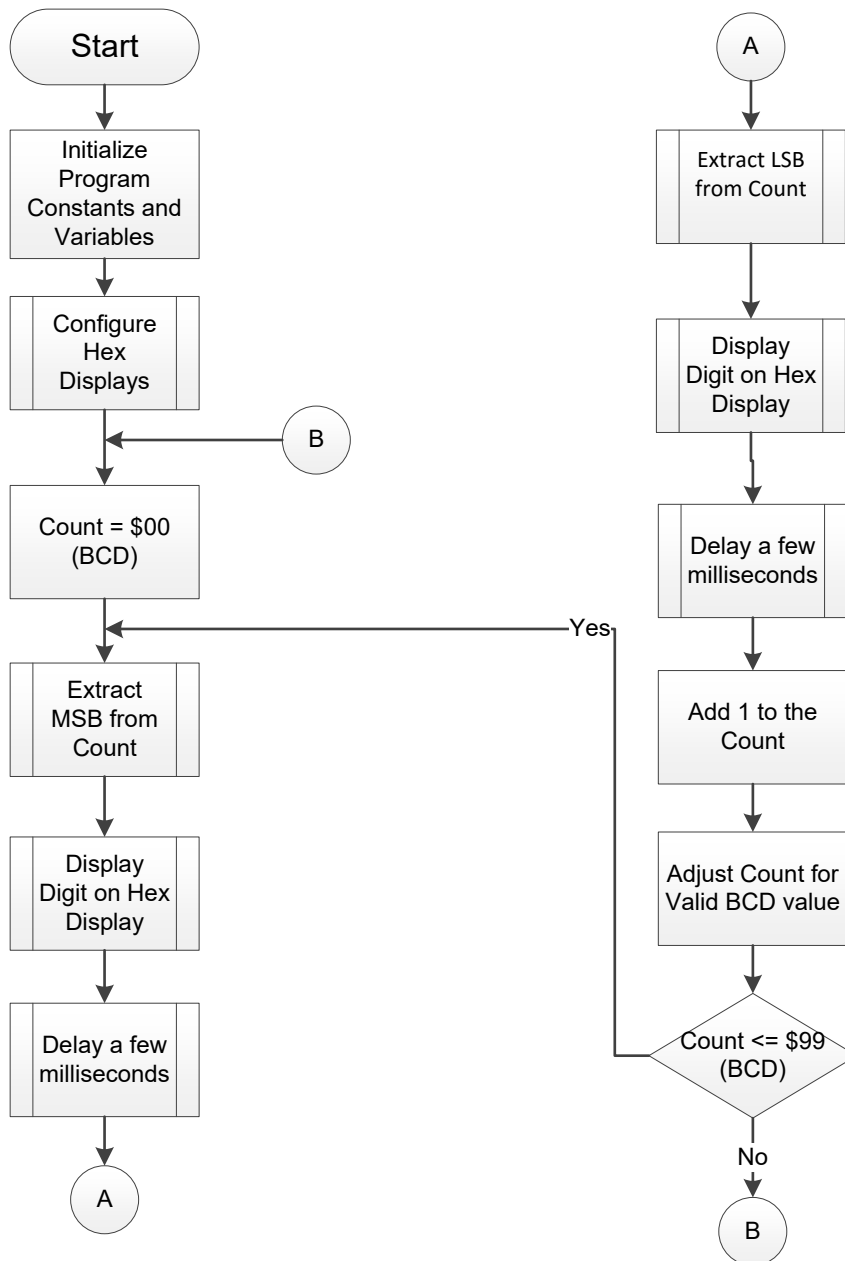
Notes:

1. Flowcharts for subprograms not included.

2. Details on saving values before calling subprograms not normally included in higher level flowcharts.

3. Some programmers prefer a more detailed flowchart to code from (especially for subroutines), so you may find it useful to do so, although it is not a hand-in for the lab assignment.

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