# Assignment 2

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## Solution:

```
; Initialize values
loadA   0x00        ; Load 0 into the accumulator
store   0xB0        ; Store the 0 into Sum, address 0xB0
loadA   0x01        ; Load 1 into the accumulator
store   0xB1        ; Store 1 into X, address 0xB1
loadA   0x0A        ; Load 10 into the accumulator
store   0xB2        ; Store 10 as the loop upper bound
loadA   0x01        ; Load 1 into the Accumulator
store   0xB3        ; Store the increment value

; loop test
loadA   0xB1        ; Load the value of X into the accumulator
comp    0xB2        ; Compare X < 10
boz     0x12        ; If X == 10, jump to termination

; loop block
loadA   0xB1        ; Load X into the accumulator
add     0xB0        ; Add Sum+X
store   0xB0        ; Store the Sum

; Increment X
loadA   0xB1        ; Load X into the accumulator
add     0xB3        ; Add 1 to X
store   0xB1        ; Store X
jump    0x08        ; Jump back to the Loop Test

; termination
stop                ; terminate program
```