Swagat Neupane(19698) Computer Organization-305 Assignment-4

Solution-1:

ORG 100

LOAD H // Load ASCII of 'H'

OUTPUT

LOAD E // Load ASCII of 'E'

OUTPUT

LOAD L // Load ASCII of 'L'

OUTPUT

OUTPUT

LOAD O // Load ASCII of 'O'

OUTPUT

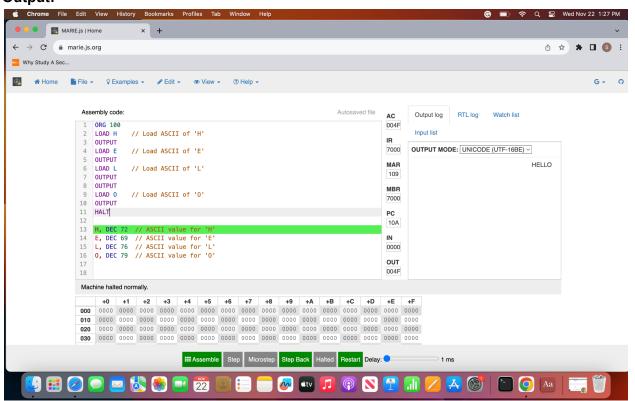
HALT

H, DEC 72 // ASCII value for 'H'

E, DEC 69 // ASCII value for 'E'

L, DEC 76 // ASCII value for 'L'

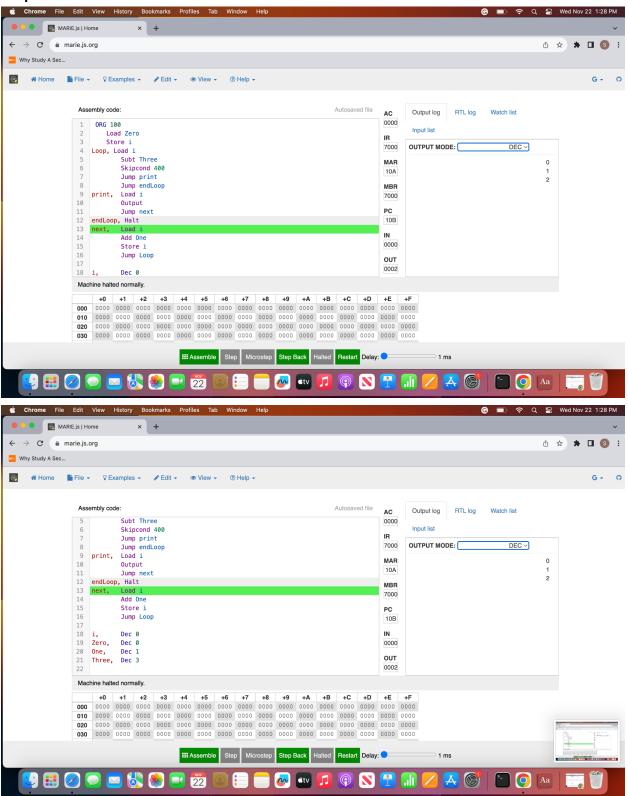
O, DEC 79 // ASCII value for 'O'



Solution-2:

ORG 100 Load Zero Store i Loop, Load i Subt Three Skipcond 400 Jump print Jump endLoop print, Load i Output Jump next endLoop, Halt next, Load i Add One Store i Jump Loop

i, Dec 0 Zero, Dec 0 One, Dec 1 Three, Dec 3



Solution-3:

ORG 100

Load ZeroValue Store CounterVariable

StartLoop, Load CounterVariable Subt ThreeValue Skipcond 400 Jump SkipPrint Jump IncrementCounter

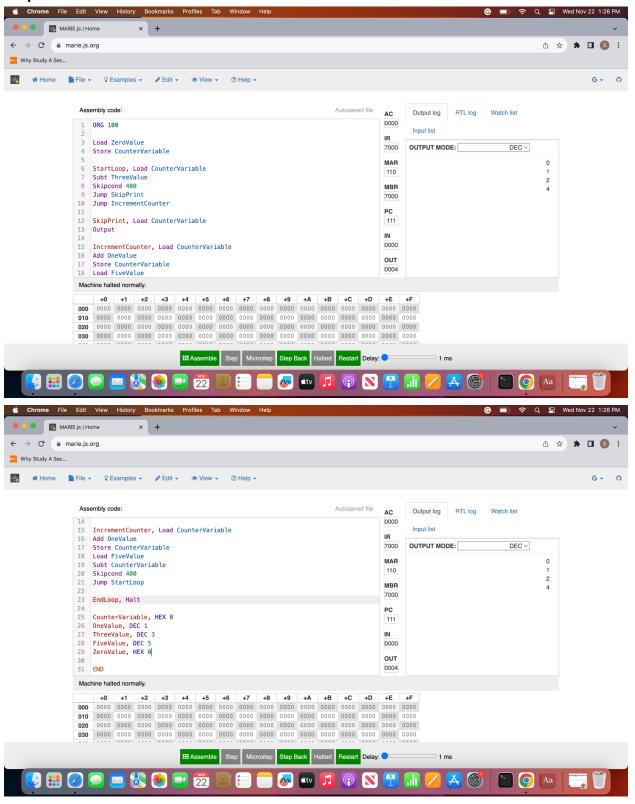
SkipPrint, Load CounterVariable Output

IncrementCounter, Load CounterVariable
Add OneValue
Store CounterVariable
Load FiveValue
Subt CounterVariable
Skipcond 400
Jump StartLoop

EndLoop, Halt

CounterVariable, HEX 0 OneValue, DEC 1 ThreeValue, DEC 3 FiveValue, DEC 5 ZeroValue, HEX 0

END



ORG 100 INPUT STORE M **INPUT** STORE N LOAD N SUBT ONE LOOP, SKIPCOND 800 JUMP DONE LOAD M ADD PRODUCT STORE PRODUCT LOAD N SUBT ONE STORE N JUMP LOOP

DONE, LOAD PRODUCT

OUTPUT HALT M, DEC 0 N, DEC 0

PRODUCT, DEC 0

ONE, DEC 1

Solution-4:

