EXPERIMENT - 2

Computer Organization and Architecture

Aim

Write an assembly language program to add two numbers: a) numbers are of 8 - bit b) numbers are of 16 - bit

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EXPERIMENT - 2

Aim:

Write an assembly language program to add two numbers:

- a) numbers are of 8 bit
- b) numbers are of 16 bit

Source Codes:

```
A) Adding 8 – bit numbers
Source Code
; Adding 8 – bit numbers
jmp start
;data
```

;code start: MVI A, 24 MVI C, 34 ADD C MOV H, A

hlt

; Adding 8 – bit numbers

jmp start

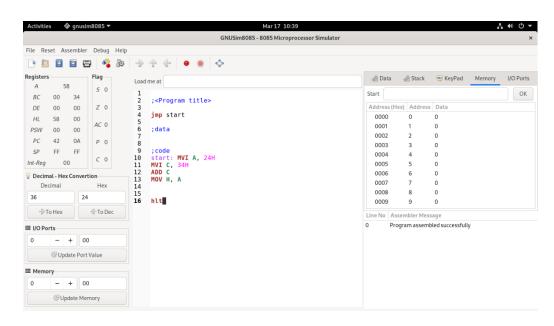
;data

;code start: MVI A, 24H MVI C, 34H ADD C MOV H, A

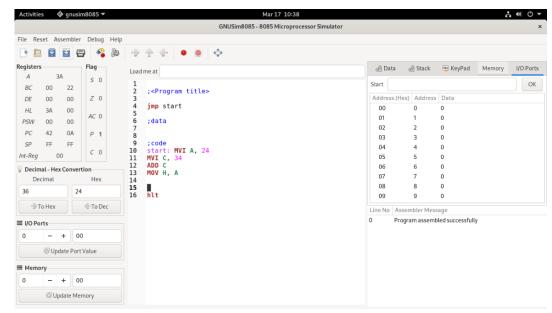
hlt

A) Output:









B) Adding 16 – Bit Numbers Source Code

;Adding 16 – bit Numbers

jmp start

;data

;code

start: LXI H, 2434h

LXI D, 3417h

DAD D

hlt

B) Output

