سپهر عبادی **9933243** تمرین چهارم معماری

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | AC | PC | IR |
| 010 | CLA | 0000 | 011 | 7800 |
| 011 | ADD 016 | C1A5 | 012 | 1016 |
| 012 | BUN 014 | C1A5 | 013 | 4014 |
| 013 | HLT | 8184 | 014 | 7001 |
| 014 | AND 017 | 8184 | 015 | 0017 |
| 015 | BUN 013 | 8184 | 013 | 4013 |
| 016 | C1A5 |  |  |  |
| 017 | 93C6 |  |  |  |

6-1)

6-11)

LDA B

CMA

INC

ADD A

SPA

BUN L10

SZA

BUN L30

BUN L20

6-16)

LOP: CLE

LDA B

CIR

STA B

SZE

BUN L0

BUN L1

L1: LDA AL

ADD CL

STA CL

CLA

CIL

ADD AH

ADD CH

STA CH

CLE

L0: LDA AL

CIL

STA AL

LDA AH

CIL

STA AH

ISZ CTR

BUN LOP

HLT

6-22)

BSA CMP

HEX 100

DEC 32

CMP: HEX 0

LDA CMP I

STA PTR

ISZ CMP

LDA CMP I

CMA

INC

STA CTR

LOP: LDA PTR I

CMA

STA PTR I

ISZ PTR

ISZ CTR

BUN LOP

ISZ CMP

BUN CMP I

PTR,

CTR,