Harshika
160IC314

1.

1000 : 0100	8800	MOV AX, 0080
0103		MOV BX, 0007
0106		MOV DX, 8006
0109		MOV SI, 0000
010C		OUT DX, AL
010D		MOV SI, 0000
0110		MOV AL, [SI]
0112		MOV DX, 8000
0115		OUT DX, AL
0116		INC SI
0117		MOV AL, [SI]
0119		MOV DX, 8002
011C		OUT DX, AL
011D		INC SI
011E		MOV AL, [SI]
0120		MOV DX, 8004
0123		OUT DX, AL
0124		INC SI
0125		MOV DX, 0004
0128		MOV CX, FFFF
012B		DEC CX
012C		JNZ 012B
012E		DEC DX
012F		JNZ 0128
0131		MOV AX, 000
0134		MOV AL, [SI]
0136		MOV DX, 8000
0139		OUT DX, AL
013A		INC SI
013B		MOV AL, [SI]

```
1000 : 013D        MOV DX, 8002
       0140        OUT DX, AL
       0141        INC SI
       0142        MOV AL, [SI]
       0144        MOV DX, 8004
       0147        OUT DX, AL
       0148        INC SI
       0149        MOV CX, FFFF
       014C        DEC CX
       014D        JNZ 014C
       014F        DEC BX
       0150        JNZ 0110
       0152        JMP 0100
       0154        INT A5
       0156        INT A5
       0158        ADD [BX+SI], AL
                   ADD [B
```

```
2.  START:
        MOV AL, 80
        MOV DX, 8006
        OUT DX, AL
        MOV AL, 61
        MOV DX, 8000
        OUT DX, AL
        MOV AL, 68
        MOV DX, 8002
        OUT DX, AL
        MOV AL, 86
        MOV DX, 8004
        OUT DX, AL

        MOV BX, 0A
Add1:   MOV CX, FFFF
Add2:   DEC CX
        JNZ Add2
        DEC BX
        JNZ Add1

        MOV AL, 80
        MOV DX, 8006
        OUT DX, AL
        MOV AL, 92
        MOV DX, 8000
        OUT DX, AL
        MOV AL, 84
        MOV DX, 8002
        OUT DX, AL
        MOV AL, 48
        MOV DX, 8004
        OUT DX, AL
```

```
        MOV   BX , OA
Add3  MOV   CX, F026
Add4  DEC CX
        JNZ  Add4
        DEC  BX
  JNZ   Add3

        MOV   AL, 80
        MOV   DX, 8006
        OUT  DX , AL
        MOV   AL,
        MOV  DX , 8000
        OUT  DX , AL
        MOV  AL,
        MOV  DX, 8002
        OUT  DX, AL
        MOV  AL,
        MOV  DX, 8004
        OUT  DX , AL

        MOV   BX , OA

Add5    DEC CX   MOV CX, FF26
Add6    JNZ      DEC CX
        JNZ  Add6
        DEC  BX
        JNZ  Add5

        JMP   START
```

Lab-7   Subhman Sidolharthu   1601 CS01

Q :) Required Program

Address	Instruction
1000: 0100	MOV AL, 80
0102	MOV DX, 8006
0105	OUT DX, AL
0106	MOV AL, 61
0108	MOV DX, 8000
010B	OUT DX, AL
010C	MOV AL, 68
010E	MOV DX, 8002
0111	OUT DX, AL
0112	MOV AL, 36
0114	MOV DX, 8004
0117	OUT DX, AL
0118	MOV BX, 000A
011B	MOV CX, FFFF
011E	DEC CX
011F	JNZ 011E
0121	DEC BX
0122	JNZ 011B
0124	MOV AL, 92
0126	MOV DX, 8000
0129	OUT DX, AL
012A	MOV AL, 84

```
012C        MOV DX,8002

012F        OUT DX,AL

0130            MOV AL,48
0132            MOV DX,8004

0135            OUT DX,AL

0136            MOV BX,8002

0138            MOV CX,FFFF

013C            DEC CX

013D              JNZ 013C

013F              DEC BX

0140              JNZ 0138

0142              MOV AL,0C

0144              MOV DX,8000

0147              OUT DX,AL

0148              MOV AL,12

014A              MOV DX,8002

014D              OUT DX,AL

014E              MOV AL,11
0150              MOV DX,8004
0153              OUT DX,AL
0154              MOV BX,0004
0157              MOV CX,FFFF
015A              DEC CX
015B              JNZ 015A
015D              DEC BX
015F              JNZ 0157
0160
```

```
0100
WAIT
ANSHUMAN
EXPAND?

LINE ASM/DSM UTILITY
-U1000:0100

1000:0100 B88000          MOV     AX,0080
1000:0103 BB0700          MOV     BX,0007
1000:0106 BA0680          MOV     DX,8006
1000:0109 BE0000          MOV     SI,0000
1000:010C EE              OUT     DX,AL
1000:010D BE0000          MOV     SI,0000
1000:0110 8A04            MOV     AL,[SI]
1000:0112 BA0080          MOV     DX,8000
1000:0115 EE              OUT     DX,AL
1000:0116 46              INC     SI
1000:0117 8A04            MOV     AL,[SI]
1000:0119 BA0280          MOV     DX,8002
1000:011C EE              OUT     DX,AL
1000:011D 46              INC     SI
1000:011E 8A04            MOV     AL,[SI]
-
```

```
1000:0119 BA0280          MOV       DX,8002
1000:011C EE              OUT       DX,AL
1000:011D 46              INC       SI
1000:011E 8A04            MOV       AL,[SI]
-U1000:011E

1000:011E 8A04            MOV       AL,[SI]
1000:0120 BA0480          MOV       DX,8004
1000:0123 EE              OUT       DX,AL
1000:0124 46              INC       SI
1000:0125 BA0400          MOV       DX,0004
1000:0128 B9FFFF          MOV       CX,FFFF
1000:012B 49              DEC       CX
1000:012C 75FD            JNZ       012B
1000:012E 4A              DEC       DX
1000:012F 75F7            JNZ       0128
1000:0131 B80000          MOV       AX,0000
1000:0134 8A04            MOV       AL,[SI]
1000:0136 BA0080          MOV       DX,8000
1000:0139 EE              OUT       DX,AL
1000:013A 46              INC       SI
1000:013B 8A04            MOV       AL,[SI]
1000:013D BA0280          MOV       DX,8002
-
```

```
1000:013A  46              INC      SI
1000:013B  8A04            MOV      AL,[SI]
1000:013D  BA0280          MOV      DX,8002
-U1000:013D

1000:013D  BA0280          MOV      DX,8002
1000:0140  EE              OUT      DX,AL
1000:0141  46              INC      SI
1000:0142  8A04            MOV      AL,[SI]
1000:0144  BA0480          MOV      DX,8004
1000:0147  EE              OUT      DX,AL
1000:0148  46              INC      SI
1000:0149  B9FFFF          MOV      CX,FFFF
1000:014C  49              DEC      CX
1000:014D  75FD            JNZ      014C
1000:014F  4B              DEC      BX
1000:0150  75BE            JNZ      0110
1000:0152  EBAC            JMP      0100
1000:0154  CDA5            INT      A5
1000:0156  CDA5            INT      A5
1000:0158  0000            ADD      [BX+SI],AL
1000:015A  0000            ADD      [BX+SI],AL
1000:015C  0000            ADD      [BX+SI],AL
-_
```