



Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No : CSE3108
Course Title : Microprocessors Sessional

Assignment No : 07

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Submitted By-

Group : A₂

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Section : A

Question:- , T, Glow Redl.

Answer:-

FIRST DB 14H, 20H, 20H, 20H, 20H, 20H, 20H, 20H, 10H, 08H

SECOND DB 14H, 22H, 22H, 22H, 22H, 22H, 22H, 22H

SEVEN DB 20H, 30H, 38H, 78H

MOV BL, 0

MAINLOOP:

MOV DX, 2003H

MOV AL, 04H

OUT DX, AL

MOV DX, 2002H

MOV AL, 08H

OUT DX, AL

MOV SI, 0

MOV CX, 10

MOV DX, 2003H

LOOP1:

MOV AL, FIRST[SI]

OUT DX, AL

INC SI

INC DX

CMP SI, 10

LOOPNE LOOP1

MOV SI, 0

MOV CX, 4

MOV DX, 2030H

LOOPSEVEN:

```
MOV AL, SEVEN[SI]
OUT DX, AL
INC SI
CMP SI, 4
LOOPNE LOOPSEVEN

MOV SI, 0
MOV CX, 8
MOV DX, 200BH
```

LOOP2:

```
MOV AL, SECOND[SI]
OUT DX, AL
INC SI
DEC DX
CMP SI, 8
LOOPNE LOOP2
```

```
MOV DX, 2070H
MOV AL, 01H
OUT DX, AL
MOV SI, 0
MOV DX, 2002H
MOV CX, 11
```

LOOP3:

```
MOV AL, 00H
OUT DX, AL
INC DX
INC SI
CMP SI, 11
```

LOOPNE LOOP3

```
MOV DX, 2030H
MOV AL, 00H
OUT DX, AL
```

```
MOV DX, 2070H
MOV AL, 00H
OUT DX, AL
```

INC BL

CMP BL, 5

LOOPNE MAINLOOP