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Roll No 127

Batch S23

Aim:

To Study Proteus Simulation using 7 Segment Display

Code:

DATA SEGMENT

PORTA EQU

00H PORTB

EQU 02H

PORTC EQU

04H

PORT_CON EQU

06H DATA ENDS

CODE

SEGMENT

MOV AX,

DATA MOV

DS, AX

ORG

0000H

START:

MOV DX, PORT_CON MOV AL,

10000000B OUT DX, AL

MOV SI, 0

MOV DI, 0

L0: MOV CX,

1FFFH L1: MOV AL, S1[SI] MOV

DX, PORTA

```
OUT DX, AL LOOP
L1
```

```
INC SI
CMP SI,
16 JL L0
```

```
MOV DX,
PORT_CON MOV
AL, 10000000B
OUT DX, AL
```

```
LL0:MOV CX, 2FFFH
LL1:MOV AL,
S2[DI] MOV DX,
PORTC
```

```
OUT DX,
AL
LOOP
LL1
```

```
INC DI
CMP DI,
4 JL LL0
```

```
JMP
```

```
START
```

```
ORG
```

```
1000H
S1 DB 11000000B DB
11111001B
DB
10100100B
DB
10110000B
DB
10011001B
DB
10010010B
DB
```

10000010B

DB

11011000B

DB

10000000B

DB

10010000B

DB

10001000B

DB

10000011B

DB

11000110B

DB

10100001B

DB

10000110B DB

10001110B

S2 DB

1101B

DB

1011B

DB

0111B DB

1110B

CODEEND

S END

Output:

