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M&A Practical 8

**Aim :** Learn to interface Seven Segment Displays with 8051. Also create hex file, load it into hardware and observe the output on Proteus Software.

1. Demonstrate a program to show your enrollment number on Seven Segment. Display connected to port P1, load it into Proteus circuit, and observe the output on it.

**Code :**

```
#include<REGX51.H>

void main()
{
    unsigned char num[] = {0x5b, 0x06, 0x06, 0x7d, 0x5b, 0x06, 0x3f, 0x06,
0x3f, 0x06, 0x5b}; //21162101012

    P1 = 0x00;
    while(1)
    {
        int i,j,k;
        for(i=0; i<sizeof(num); i++)
        {
            P1 = num[i];
            for(j=0; j<32000; j++)
            {}
            for(j=0; j<32000; j++)
            {}
        }
        for(k=0; k<30000; k++)
        {
            P1 = 0x00;
        }
    }
}
```

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**Output Video :** [P8.1 - Proteus 8 Professional - Schematic Capture 2023-10-22 21-40-49.mp4](#)

2. Design and develop a program to display last two digits of enrollment number on Seven Segment Display which will turn on using a switch and show the output on Proteus to observe virtually.

**Code :**

```
#include<REGX51.H>

void main()
{
    P1 = 0x06;
    P3 = 0X5b;
}
```

**Output Video :** [P8.2 - Proteus 8 Professional - Schematic Capture 2023-10-22 21-44-07.mp4](#)

**Video folder :** [MA\\_Practicals\\_Videos](#)

**Link (if not opened on clicking) :**

[https://drive.google.com/drive/folders/1EdTE\\_UFdKT94byuH4RJJrLkb6wfnJNpB?usp=sharing](https://drive.google.com/drive/folders/1EdTE_UFdKT94byuH4RJJrLkb6wfnJNpB?usp=sharing)