

1.Program to find largest number from a given array of 10 numbers

```
#include <reg51.h>
void main (void)
{
    unsigned char block [ ] = {0X0B, 0X02, 0X03, 0X04, 0X05, 0X06, 0X07, 0X08, 0X09, 0X0A};
    unsigned char maximum = 0X00;
    unsigned char x;
    for (x = 0; x<=9; x++)
    {
        if (maximum > block [x])
            maximum = maximum;
        else
            maximum = block [x];
    }
    P1 = maximum;
}
```

2.ADD the numbers stored in the given array and display result on port1

```
#include <reg51.h>
unsigned char source [ ] = {0X09, 0X03, 0X03, 0X01, 0X01, 0X01, 0X01, 0X01, 0X01, 0X01};
unsigned char sum = 0;
unsigned char x;
void main (void)
{
    for (x = 0; x <=9; x++)
        sum = sum + source [x];           // Add bytes
    P1 = sum;                             // Display the result on P1
}
```

#include<reg51.h> //to initialize preprocessor header file

```
// add contents of register A WITH register B
// address of register a and b is E0 and F0 respectively
sfr i = 0xE0;
sfr j = 0xF0;
sfr port0 = 0x80;
void main()
{
    unsigned char i,j,k;
    i=0X24;
    j=0X07;
    k= i+j;
    port0=k;
}
```

// Multiplication :

```
#include <reg51.h>
sfr a = 0xE0;           // Define i as an accumulator
sfr b = 0xF0;           // Define j as B Register
sfr port0 = 0x80;       // Define P1 as RESULT
void main (void)
{
    unsigned char x;
    a = 0x05;           // First number
    b = 0x09;           // Second number
    x = a*b;            // Multiply first and second numbers
    port0 = x;          // Display result
}
```

Program to find smallest number from a given numbers

```
#include <reg51.h>
unsigned char x, y;
void main ()
{
    x = 0x07;           // First number
    y = 0x09;           // Second number
    if (x < y)
        P1 = x;
    else
        P1 = y;
}
```