

# EXPERIMENT NO - 1

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## AIM

Installation and Setup of required software tools for Lab: Keil, Flash Magic, and USB Drivers.

**Hardware Used** - Computer System, 8051 Microcontroller kit, connectors.

**Software Used** - Keil Micro-vision IDE, Flash Magic tool.

**Pins Used** - Rx D pin is used for serial communication and led blinking.

## Procedure

1. Write C code in Keil  $\mu$ Vision.
2. Compile it into Hex Code
3. Use Debug Menu to test the code and see everything is working as intended.
4. Connect 8051 to PC via USB wire.
5. Open Flash Magic
6. Burn the saved Hex code to the memory of 8051.
7. Disconnect the device and switch on to see if code is working.

## C Code

```
#include "p89v51rx2.h"
void delay(unsigned int x)
{
    unsigned int i, j;
    for (i = 0; i <= 1000; i++)
    {
        for (j = 0; j <= x; j++)
        {
            ;
        }
    }
}
void main(void)
{
    while (1)
    {
        ;

        RxD = 0;
        delay(30);
    }
}
```

```
RxD = 1;
```

```
}
```

## Result

First LED on 8051 will blink as shown below.

## Output

