**Write and execute C program to blink LEDs using software delay routine in LPC2148 kit**

**Date:**

**Aim:** To write and execute a C program to blink LEDs using software delay routine in LPC 2148 kit

**Apparatus Required:**

Keil uVision5 Software

Philips Flah Programmer

LPC 2148 kit

**Program:**

#include "lpc214x.h"

void delay (unsigned int k);

void main(void)

{

IODIR0 = 0xFFFFFFFF; //Configure Port0 as output Port

PINSEL0 = 0; //Configure Port0 as General Purpose IO

while(1)

{

IOSET0 = 0x0000ff00; //Set P0.15-P0.8 to '1'

delay(1000); //1 sec Delay

IOCLR0 = 0x0000ff00; //Set P0.15-P0.8 to '0'

delay(1000); //1 Sec Delay

}

}

//Delay Program

//Input - delay value in milli seconds

void delay(unsigned int k)

{

unsigned int i,j;

for (j=0; j<k; j++)

for(i = 0; i<=800; i++);

}

**Output:** LEDs P0.15-P0.8 are blinking

**Result:**

Thus the C program to blink LEDs using software delay routine was written and executed in LPC 2148 kit