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19CSE303 Embedded Systems
Lab Worksheet - 6
LED Interface

Exercise Problems

1. Write a ARM embedded C program to turn on an LED connected to P0.10 using Keil Simulator

```
#include <LPC21xx.H>


int main()
{
    IODIR0 |= (1<<10);        //Setting P0.10 as output port
    while(1) {

        IOSET0 |= (1<<10) ;     //Sending HIGH to P0.10

        }
    return(0);
}
```

2. Write a ARM embedded C program to blink an LED connected to P1.17 using Keil Simulator

```
#include <LPC21xx.H>

delay()       //Delay function
{
    int count;
    for(count = 0;count<=10000;count++);
}

int main()
{
    IODIR1 |= (1<<17);              //setting P1.17 as output
port
    while(1){

        IOSET1 |= (1<<17) ;           //Sending HIGH to P1.17
        delay();
        IOCLR1 |= (1<<17) ;           // Sending LOW to p1.17
        delay();
        }
    return(0);
}
```

Assignment Problem

1. Write an ARM embedded C program to form a chasing LED pattern with eight LEDs using Keil simulator.