A) Blinking LED:

#include <LPC214x.h>

void delay\_ms(unsigned char time) //This Function is used to cause delay between

LED ON and OFF events

{

unsigned int i, j;

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

for(i=0; i<8002; i++);

}

int main(void)

{

PINSEL2 = 0x00000000; //Configure PORT1 as GPIO

IODIR1 = 0xF << 16 ; //Configure P1.16- P1.19 as output

while(1)

{

IOSET1 = 0xF << 16; //Turn ON LED

delay\_ms (250);

IOCLR1 = 0xF << 16; //Turn OFF LED

delay\_ms (250);

}

}

B) Rolling LED

#include <LPC214x.h>

void delay\_ms(unsigned char time) //This Function is used to cause delay between

LED ON and OFF events

{

unsigned int i, j;

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

for(i=0; i<8002; i++);

}

int main(void)

{

unsigned char val = 0x01;

PINSEL2 = 0x00000000; //Configure PORT1 as GPIO

IODIR1 = 0xF << 16 ; //Configure P1.16- P1.19 as output

while(1)

{

IOSET1 = val << 16; //Turn ON LED

delay\_ms (500);

IOCLR1 = val << 16; //Turn OFF LED

val = val << 1;

if (val == 0x10) { val = 0x01;}

}

}