## //C Programming to demonstrate EXTINTO interrupt

```
#include < lpc17xx.h>
void delay(uint32_t);
void EINTO_IRQHandler(void)
        {
        uint32 t a;
        LPC_SC->EXTINT |=(1<<0);//clear EINTO
       LPC_GPIO0->FIODIR = (1 << 0);//p0.0 as o/p pin
        for(a=0;a<=10;a++)
          LPC GPIO0->FIOSET |= (1<<0);//LED on
         delay(200000);
         LPC_GPIOO->FIOCLR |= (1<<0);//LED off
         delay(200000);
        } }
       int main(void)
         LPC_PINCON->PINSEL4 |=(1<<20);//Configure p2.10 as EINTO
          LPC_SC->EXTINT |=(1<<0);// Clear Pending interrupts
         LPC_SC->EXTMODE |=(1<<0);//Configure EINTO as Edge Triggered
         LPC_SC->EXTPOLAR |=(1<<0);//Configure EINTx as Rising Edge
         NVIC_EnableIRQ(EINTO_IRQn);//Enable the EINTO interrupts
       while(1)
       {
       LPC_GPIO1->FIODIR |= (1<<0); //p1.0 as o/p pin
       LPC_GPIO1->FIOSET |= (1<<0); // LED on
        delay(200000);
       LPC_GPIO1->FIOCLR |= (1<<0);//LED off
        delay(200000);
        }}
        void delay(uint32_t i)
       uint32 tx;
        for(x=0;x<=i;x++);
        }
```

## //C Programming to demonstrate EXTINTO and EXTINT1 interrupts

```
#include<stdio.h>
#include < lpc17xx.h>
  void delay(uint32 t);
void EINTO_IRQHandler(void)
        { uint32_t a;
         LPC SC->EXTINT |= (1<<0);//clear EXTINTO
          LPC\_GPIO1->FIODIR |= (1<<31);//p1.31 as o/p pin
        for(a=0;a<=10;a++)
         LPC_GPIO1->FIOSET |= (1<<31);//p1.31 is HIGH
        delay(200000);
         LPC GPIO1->FIOCLR |= (1<<31);//p1.31 is LOW
        delay(200000);
        } }
       void EINT1_IRQHandler(void)
        {uint32_t b;
        LPC SC->EXTINT |= (1<<1);//clear EXTINT1
        LPC\_GPIO1->FIODIR \mid = (1<<0);//p1.0 as o/p pin
        for(b=0;b<=10;b++)
        {
         LPC_GPIO1->FIOSET |= (1<<0);//p1.0 is HIGH
        delay(200000);
        LPC_GPIO1->FIOCLR |= (1<<0);//p1.0 is LOW
        delay(200000);
        } }
       int main(void)
  LPC_PINCON->PINSEL4 |= (1<<20) | (1<<22);//Configure P2.10,P2.11 as EINTO/1
  LPC SC->EXTINT = (1 << 0) | (1 << 1); // Clear Pending interrupts
  LPC_SC->EXTMODE |= (1<<0)|(1<<1);//Configure EINTx as Edge Triggered
  LPC SC->EXTPOLAR |= (1<<0)|(1<<1);//Configure EINTx as Rising Edge
  NVIC EnableIRQ(EINTO IRQn);//Enable the EINTO,EINT1 interrupts
  NVIC EnableIRQ(EINT1 IRQn);
       while(1)
       LPC_GPIO1->FIODIR |= (1<<16);//p1.16 as o/p pin
       LPC_GPIO1->FIOSET |= (1<<16);//p1.16 is HIGH
        delay(200000);
       LPC_GPIO1->FIOCLR |= (1<<16);//p1.16 is LOW
        delay(200000);
        }}
        void delay(uint32_t i)
       uint32_t x;
        for(x=0;x<=i;x++);
```

```
#include<stdio.h>
#include < lpc17xx.h>
  void delay(uint32 t);
  void EINTO_IRQHandler(void)
        { uint32_t a;
         LPC SC->EXTINT |= (1<<0);//clear EXTINTO
          LPC\_GPIO1->FIODIR |= (1<<31);//p1.31 as o/p pin
        for(a=0;a<=10;a++)
         LPC_GPIO1->FIOSET |= (1<<31);//p1.31 is HIGH
        delay(200000);
         LPC GPIO1->FIOCLR |= (1<<31);//p1.31 is LOW
        delay(200000);
        } }
       void EINT1_IRQHandler(void)
        {uint32 t b;
        LPC SC->EXTINT |= (1<<1);//clear EXTINT1
        LPC\_GPIO1->FIODIR \mid = (1<<0);//p1.0 as o/p pin
        for(b=0;b<=10;b++)
        {
         LPC GPIO1->FIOSET |= (1<<0);//p1.0 is HIGH
        delay(200000);
        LPC GPIO1->FIOCLR |= (1<<0);//p1.0 is LOW
        delay(200000);
        } }
       int main(void)
  LPC_PINCON->PINSEL4 |= (1<<20) | (1<<22);//Configure P2.10,P2.11 as EINTO/1
  LPC SC->EXTINT = (1 << 0) | (1 << 1); // Clear Pending interrupts
  LPC_SC->EXTMODE |= (1<<0)|(1<<1);//Configure EINTx as Edge Triggered
  LPC SC->EXTPOLAR |= (1<<0)|(1<<1);//Configure EINTx as Rising Edge
  NVIC EnableIRQ(EINTO IRQn);//Enable the EINTO,EINT1 interrupts
  NVIC EnableIRQ(EINT1 IRQn);
 NVIC SetPriority(EINT0 IRQn, 0); //set interupt0 to highest priority
 NVIC SetPriority(EINT1 IRQn, 1); // set interupt1 to lowest priority
       while(1)
       LPC GPIO1->FIODIR |= (1<<16);//p1.16 as o/p pin
       LPC_GPIO1->FIOSET |= (1<<16);//p1.16 is HIGH
        delay(200000);
       LPC GPIO1->FIOCLR |= (1<<16);//p1.16 is LOW
        delay(200000);
        }}
        void delay(uint32_t i)
       {uint32_t x;
        for(x=0;x<=i;x++); }
```