

C Example

```
#include <htc.h>
__CONFIG(INTIO & WDTDIS & PWRTDIS & MCLRDIS &
UNPROTECT & BORDIS & IESODIS & FCMDIS);
#define bitset(var,bitno) ((var) |= 1 << (bitno))
#define bitclr(var,bitno) ((var) &= ~(1 << (bitno)))
```

```
int a;
```

```
void io_port_setup(void)
```

```
{
    ADON = 0;
    ANSEL = 0b00000000;
    ANSELH = 0b00000000;
    TRISC = 0b00000000;
    PORTC = 0b00000100;
}
```

```
void blink( void)
```

```
{
    char i;    /* a local variable */
    char j;

    for ( i = 0; i < 255; i++)
    {
        for (j = 0; j < 255; j++)
        {
        }
    }
    PORTC ^= 0b00000001;
}
```

```
void main( void)
```

```
{
    io_port_setup();

    a = 12; /* value assigned to global variable */

    a = a*12;

    do
    {
        blink();
    } while ( --a > 0);
    #asm
        sleep
    #endasm
}
```