

```
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i      Maharaja  
//304D074  
//TE-D  
//EXP6
```

```
#include <stdio.h>  
#include <stdlib.h>  
#include<PIC18F4550.h>
```

```
void delay()  
{  
    unsigned int j;  
    for(j=0; j<30000; j++)  
    {  
  
    }  
}
```

```
void main()  
{  
    unsigned int key, i;  
    key=0;
```

```
    TRISB=0x00;  
    TRISDbits.RD2=0;  
    TRISAbits.RA4=0;  
    TRISDbits.RD0=1;  
    TRISDbits.RD1=1;
```

```
    while(1)  
    {  
        if(PORTDbits.RD0==0)  
        {  
            key=0;  
        }  
        if(PORTDbits.RD1==0)  
        {  
            key=1;  
        }  
        if(key==0)  
        {  
            LATDbits.LATD2=0;  
            LATAbits.LATA4=0;  
            for(i=0; i<8; i++)  
            {  
                LATB=0x01<<i; delay();
```

```
    }  
    }  
    if(key==1)  
    {  
        LATDbits.LATD2=1;  
        LATAbits.LATA4=1;  
        for(i=0;i<8;i++)  
        {  
            LATB=0x80>>i; delay();  
        }  
    }  
}
```