

### **Program For DAC interfacing with LPC 2148:-**

```
#include<lpc214x.h>

#define DAC_Datamask 0x0000ffc0

#define Datashift 6

void DACInit(void)
{
    PINSEL1&=0xff3ffff;
    PINSEL1|=0X00080000;
    DACR=1<<16;
}

void delay(unsigned int time)
{
    unsigned int i,j;
    for(i=0;i<time;i++)
        for(j=0;j<10000;j++);
}

int main(void)
{
    int i;
    DACInit();
    while(1)
    {
        for(i=0;i<1024;i++)
        {
            DACR=(DAC_Datamask&(i<<Datashift));
            delay(2)
        }
        for(i=1023;i>0;i--)
```

```
{  
    DACR=(DAC_Datamask&(i<<Datashift));  
    delay(2);  
}  
}  
}
```