Program For ADC interfacing with LPC 2148:-

```c
#include<lpc214x.h>
unsigned int c;
static unsigned int adl_data;
void ADCinit(void)
{
PINSEL1|=0x00000000;
PINSEL2=0x00000000;
IODIR1=0xF0000000;
}
unsigned int ADC_Read(unsigned char channel)
{
AD0CR=0x00200300|(1<<channel);
AD0CR|=1<<24;
while(!(AD0GDR&0x80000000));
adl_data=(AD0GDR&0x0000FFC0)>>6;
return adl_data;
}
int main()
{
ADCinit();
c=ADC_Read(1);
while(1)
{
IOPIN1=adl_data;
}
return c;
}
```