Program For RTC interfacing with LPC 2148:-

```
#include<lpc214x.h>
#include<stdio.h>
#define RTCConPrescaler 1
extern void Uart0Init(unsigned int);
void delay(unsigned int time)
{
unsigned int i,j;
for(i=0;i<time;i++)
  for (j=0;j<5000;j++) ;
  }
  void Uart0Init(unsigned int baudrate)
  {
  int i,FDiv;
  i=PINSEL0;
  i=i&0XFFFFFFF0;
  PINSEL0=(i|0x05);
  U0LCR=0X83;

  FDiv=(15000000/16)/baudrate;
  U0DLM=0x00;
  U0DLL=0x61;
  U0LCR=0X03;

  U0TER=0X80;
  }
  int UART_GetChar(void)
  {
```

```
while(!(U0LSR&0X01));
return(U0RBR);
}
int UART_PutChar(unsigned char ch)
{
if (ch=='\n')
{
while(!(U0LSR&0X20));
U0THR=0X0D;
}
while(!(U0LSR&0X20));
return(U0THR=ch);
}
int fputc(int ch,FILE*f)
{
return(UART_PutChar(ch));
}
/*struct__FILE{int handle;};
FILE__stdout;*/
void RTCInit(void)
{
CIIR=0X00;

PREINT=0X16D;
PREFRAC=0X1B00;
CCR=0X02;

CCR=0x02;
```

```
}
void SetTime(int hours,int mins,int sec)
{
SEC=sec;
MIN=mins;
HOUR=hours;
CCR=0X01;
}
int main(void)
{
Uart0Init(9600);
RTCInit();
SetTime(5,30,01);
while(1)
{
printf("\nThe Time is");
printf("%02d",HOUR);
printf(":%02d",MIN);
printf(":%02d",SEC);
delay(1024);
}
        return(0)   ;
}
```