Program for lcd_interfacing:

```
#include<lpc214x.h>
#define LCD_port 0x00FF0000
#define EN 1<<10
#define RS 1<<11
#define RW 1<<20
#define LCD_shift 16
void delay(unsigned int time)
{ int i,j;
  for(i=0;i<time;i++)
  for(j=0;j<200;j++);
}
void LCD_strobe()
delay(1000);
IOSET0=EN;
delay(1000);
IOCLR0=EN;
delay(1000);
}
void LCD_data(unsigned char ch)
IOCLR1=LCD_port;
IOSET1=ch<<LCD_shift;</pre>
IOSET0=RS;
```

```
IOCLR0=RW;
LCD_strobe();
}
void LCD_cmd(unsigned char ch)
{
IOCLR1=LCD_port;
IOSET1=ch<<LCD_shift;
IOCLR0=RS;
IOCLR0=RW;
LCD_strobe();
}
void LCD_init(void)
{
PINSELO&=0XFF0FFFF;
PINSEL1&=0XFFFFFFF;
PINSELO&=0XFFFFFFF3;
IODIR0|=RS|EN|RW;
IODIR1|=LCD_port;
LCD_cmd(0x38);
LCD_cmd(0x06);
LCD_cmd(0x0C);
LCD_cmd(0x01);
LCD_cmd(0x80);
LCD_cmd(0x0E);
}
```

```
void LCD_Display(int row,int pos,unsigned char*ch)
{
unsigned char temp;
if(row==1)
{
temp=0x80|(pos-1);
}
else
temp=0xc0|(pos-1);
}
LCD_cmd(temp);
while(*ch)
{
LCD_data(*ch++);
}
}
int main()
{
LCD_init();
LCD_Display(1,2,"welcome to");
LCD_Display(2,5,"gce,karad");
while(1)
return 0;
}
```