Code to interface 16x2 LCD with AT89C51

```
//Program to test LCD. Display single character "A"


#include<reg51.h>
#define cmdport P3
#define dataport P2
#define q 100
sbit rs = cmdport^0;  //register select pin
sbit rw = cmdport^1;  // read write pin
sbit e = cmdport^6;  //enable pin


void delay(unsigned int msec)  // Function to provide time delay in msec.
{
int i,j ;
for(i=0;i<msec;i++)
for(j=0;j<1275;j++);
}


void lcdcmd(unsigned char item)  //Function to send command to LCD
{
dataport = item;
rs= 0;
rw=0;
e=1;
delay(1);
e=0;
```

```
}


void lcddata(unsigned char item)  //Function to send data to LCD
{
dataport = item;
rs= 1;
rw=0;
e=1;
delay(1);
e=0;
}


void main()
{
lcdcmd(0x38);  // for using 8-bit 2 row mode of LCD
delay(100);
lcdcmd(0x0E);  // turn display ON for cursor blinking
delay(100);
lcdcmd(0x01);  //clear screen
delay(100);
lcdcmd(0x06);  //display ON
delay(100);
lcdcmd(0x86);  // bring cursor to position 6 of line 1
delay(100);
lcddata('A');
}
```