```
#include "I2C LCD.h"
#include "built in.h"
//UChar LCD 01 ADDRESS = 0x7E; //PCF8574A
UChar LCD 01 ADDRESS = 0x4E;
                                   //PCF8574T
char txt[] = "Hello World";
void main() {
 int i = 0;
int j = 1;
 int k = 0:
//CHECON = 0x00;
 TRISE3 bit = 0;
AD1PCFG = 0xFFFFFFFF;
 JTAGEN bit = 0;
 I2C2 Init(100000);//INIT I2C AT 100KHZ
 I2C Set Active(&I2C2 Start, &I2C2 Restart, &I2C2 Read, &I2C2 Write,
&I2C2 Stop,&I2C2 Is Idle); // Sets the I2C1 module active
 Delay ms(100);
I2C LCD init(LCD 01 ADDRESS);
Delay ms(100);
 I2C Lcd Cmd(LCD 01 ADDRESS, LCD FIRST ROW,1);
I2C Lcd Cmd(LCD 01 ADDRESS, LCD CURSOR OFF,1);
                                                          // Cursor off
I2C Lcd Cmd(LCD 01 ADDRESS, LCD CLEAR,1);
                                                      // Clear display
 Delay ms(1000);
 i=1;j=0;
 while(1){
    j++;
    i=1:
    I2C LCD Out(LCD 01 ADDRESS,j,1,txt);
    if(j > 4)
      j=1;
    while( i < 10){
       Delay ms(500);
       I2C Lcd Cmd(LCD 01 ADDRESS, LCD SHIFT RIGHT,1);
       i++;
     while (i > 0)
       Delay ms(500);
       I2C Lcd Cmd(LCD 01 ADDRESS, LCD SHIFT LEFT,1);
     I2C Lcd Cmd(LCD 01 ADDRESS, LCD CLEAR,1);
                                                          // Clear display
}
```