

DISPLAY UNIT 2.8" TFT LCD ILI9341

Download following AB&C 3 Libraries on your desktop Folder name "TFT LCD"

(A) Adafruit GFX.h Library

http://www.areptone.in/arduino/arduino-soft/Adafruit_GFX_Library-1.4.7.zip

(B) Adafruit TFTLCD.h Library

<http://www.areptone.in/arduino/arduino-soft/TFTLCD-Library-master.zip>

(C) Adafruit TOUCH SCREEN.h Library

http://www.areptone.in/arduino/arduino-soft/Adafruit_TouchScreen-master.zip

TFT LCD ILI9341 DRIVER

http://www.areptone.in/arduino/arduino-soft/Adafruit_ILI9341-master.zip

RUN ARDUINO IDE Software On your PC

Go to **Sketch Menu** & Click Mouse Button

Go to **Include Library**

Go to **Add ZIP Library** Then Click Enter Button

Find These **Libraries** on your desktop **TFT LCD** Folder

CHECKE all 3 LIBRARIES ADDED to Aduino IDE Software On your PC

Go to **Sketch Menu** & Click Mouse Button

Go to **Include Library** then right side

Then Click UP/DOWN Button

Find These **Libraries** on your list

NOW DOWNLOAD TFTLCD Sketch

<http://www.areptone.in/arduino/arduino-project/tftlcd28.docx>

SCAKAGE FOR TFT LCD 2.8" INTERFACING WITH ARDUINO UNO

Most important part is this identifier 9341 number of TFT LCD

(By Mr. Adeeb Raza)

```
#include <Adafruit_TFTLCD.h>
```

```
#include <Adafruit_GFX.h>
```

```
#include <TouchScreen.h>
```

```
#define LCD_CS A3
```

```
#define LCD_CD A2
```

```
#define LCD_RW A1
```

```
#define LCD_RD A0
```

```
#define LCD_RESET A4
```

```
#define TS_MINX 161
```

```
#define TS_MINY 133
```

```
#define TS_MAXX 930
```

```
#define TS_MAXY 882

#define YP A2
#define XM A3
#define YM 8
#define XP 9

#define BLACK 0x0000
#define BLUE 0x001F
#define RED 0xF800
#define GREEN 0x07E0
#define CYAN 0x07FF
#define MAGENTA 0xF81F
#define YELLOW 0xFFE0
#define WHITE 0xFFFF

Adafruit_TFTLCD tft(LCD_CS, LCD_CD, LCD_RW, LCD_RD, LCD_RESET);

TouchScreen ts=TouchScreen(XP, YP, XM, YM, 300);

boolean buttonEnabled = true;

void setup() {
  Serial.begin(9600);
  Serial.print("Starting Screen Calibration....");

  tft.reset();
  tft.begin(0x9341); //9341 is identifier number of TFT LCD
  tft.setRotation(1);
  tft.fillScreen(BLACK);

  //Draw White Frame
  tft.drawRect(0,0,319,240,WHITE);

  //Print "ADEEB RAZA"
  tft.setCursor(40,30);
  tft.setTextColor(RED);
  tft.setTextSize(4);
  tft.print("ADEEB RAZA");

  // Print "Welcomes" text
  tft.setCursor(70, 80);
  tft.setTextColor(GREEN);
  tft.setTextSize(4);
  tft.print("WELCOMES");

  // Print "You" text
  tft.setCursor(120, 130);
  tft.setTextColor(BLUE);
  tft.setTextSize(4);
  tft.print("YOU");
```

```
//Create Red Button for "Thanks"  
tft.fillRect(60,180,200,40, RED);  
tft.drawRect(60,180,200,40, WHITE);  
tft.setCursor(100,188);  
tft.setTextColor(WHITE);  
tft.setTextSize(3);  
tft.print("Thanks");
```

```
//Create Red Button for "ON"  
tft.fillRect(5,180,40,40, YELLOW);  
tft.drawRect(5,180,40,40, WHITE);  
tft.setCursor(14,193);  
tft.setTextColor(BLUE);  
tft.setTextSize(2);  
tft.print("ON");
```

```
//Create Red Button for "OFF"  
tft.fillRect(274,180,38,40, RED);  
tft.drawRect(275,180,38,40, WHITE);  
tft.setCursor(278,192);  
tft.setTextColor(BLUE);  
tft.setTextSize(2);  
tft.print("OFF");
```

```
//Create Red Button for "Exit"  
tft.fillRect(130,6,33,15, YELLOW);  
tft.drawRect(130,6,33,15, RED);  
tft.setCursor(135,10);  
tft.setTextColor(RED);  
tft.setTextSize(1);  
tft.print("Exit");
```

```
}
```

```
void loop() {  
  TSPoint p = ts.getPoint(); //Get touch point  
  if (p.z > ts.pressureThreshold){  
    Serial.print(" X = "); Serial.print(p.x);  
    Serial.print(" tY = "); Serial.print(p.y);  
    Serial.print("\n");  
  
    p.x = map(p.x, TS_MAXX, TS_MINX, 0, 320);  
    p.y = map(p.y, TS_MAXY, TS_MINY, 0, 240);  
  
    if(p.x>60 && p.x<260 && p.y>180 && p.y>220 && buttonEnabled){  
  
      buttonEnabled =false;  
  
      pinMode(XM, OUTPUT);  
      pinMode(YP, OUTPUT);
```

```
//ERASE the Screen
tft.fillScreen(BLACK);

//Draw Frame
tft.drawRect(0,0, 319,240, WHITE);

tft.setCursor(50,50);
tft.setTextColor(WHITE);
tft.setTextSize(3);
tft.print("Thank you for\n\n  Watching");

}
delay(10);
}
}
```

-----: End Of Programme :-----

OUTPUT



Thanks
Adeeb Raza