Assignment 7

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CODE:

```
#include <Wire.h>

#include <Adafruit_GFX.h>

#include <Adafruit_SSD1306.h>

#define SCREEN_WIDTH 128 // OLED display width, in pixels

#define SCREEN_HEIGHT 64 // OLED display height, in pixels

#include "BluetoothSerial.h"

BluetoothSerial SerialBT;

// Declaration for an SSD1306 display connected to I2C (SDA, SCL pins)

Adafruit_SSD1306 display(SCREEN_WIDTH, SCREEN_HEIGHT, &Wire, -1);

void setup() {


Serial.begin(115200);

  SerialBT.begin("ESP32test"); //Bluetooth device name

  Serial.println("The device has started, now you can pair it with bluetooth!");

Serial.println("oled test");

  if(!display.begin(SSD1306_SWITCHCAPVCC, 0x3C)) {

   Serial.println("SSD1306 allocation failed");

   for(;;);

  }

  delay(2000);
```

```
  display.clearDisplay();

  display.setTextSize(1);

  display.setTextColor(WHITE);

  display.setCursor(0, 10);

  // Display static text

  display.println("Helloeveryone");

  display.display();

}


void loop() {

  if (Serial.available()) {

    SerialBT.write(Serial.read());

  }


  while(SerialBT.available()) {

   // Serial.write(SerialBT.read());

   char   a =SerialBT.read();


  Serial.println(a);


  delay(20);

  display.clearDisplay();

  display.setTextSize(1);

  display.setTextColor(WHITE);

  display.setCursor(0, 10);

  // Display static text
```

```
  display.print(a);

}

display.display(); }
```

Blocks: