logic for displaying temperature and humidity on OLED.

```
#include <wire.h>
#include <Adafruit_GFX.h>
#include <Adafruit_SSD1306.h>.
#include <dht.h>

#define dht_apin A0. //Analog pin Sensor is Connected to.
#define SCREEN_WIDTH 128
#define SCREEN_HEIGHT 32

Adafruit_SSD1306 display(SCREEN_WIDTH, SCREEN_HEIGHT, &WIRE,
                                                    -1);
dht DHT;

  void setup ( )
  {.
     Serial.begin(115200);
     if (!display.begin(SSD1306_SWITCHCAPVCC, 0x3C))
      {
         Serial.println(("SSD1306 allocation failed"));
             for(;;);
       }.
     }. //setup.
```

```
void loop() {
    DHT.read11(dht_apin);
    Serial.print("Temperature : ");
    Serial.println(DHT.temperature);
    display.clearDisplay();
    display.setTextSize(1);
    display.setTextColour(WHITE);
    display.setCursor(0,5);
    display.println(temperature);
    display.display();
    display.setCursor(1,5);
    display.print("Humidity");
    display.println(DHT.humidity);
    display.display();
}
```

Rasberry PI models.

We can say Rasberry PI is Small Sized / credit card sized Computer which uses standard Keyboard & mouse.

Different types of rasberry PI models.

The different types of Easberry PI models are as follows.

1. Rasberry PI 1 model B. } → model 1.
2. Rasbery PI 1 model B+ } → model 1.
3. Rabbery PI 1 model A } → model 1.
4. Rasberry PI 1 model A+ } → model 1.
5. Rasberry PI Zero
6. Rasberry PI 2
7. Rasberry PI 3 model B
8. Rasberry PI Zero W.
9. Rasberry PI 4 model B.

etc...

By looking at above different Categories we can further Categorise in (1) model-A (2) model-B (3) Zero (4) Compute

Raberry PI Zero (minimalist)

- → Single core @ 1GHz
- → 512 MB SDRAM.
- → Micro SDHC slot.
- → No networking interface

Rasberry PI-1 (Beginning) (2012)

Processor & GPU

Single-core ARM11 76JZF-S @ 700MHz
Broadcom VideoCore IV @ 250MHz

Flash memory & storage

512 MB → SDRAM

Networking : 10/100-Mbits/s.

→ 2 USB 2.0 ports.
→ 4 pole stereo Audio / composite Audio port

Rasberry PI-2 (The Rise) (2015)

→ Quad core Cortex-A53 @ 900 MHz
→ 1GB SDRAM
→ Micro SDHC Slot.
→ 10-100 Mbps ethernet
Other are almost same as model-1

Rasberry PI-3 (2018)

→ Quad core @ 1.2 GHz.
→ Broad com VideoCore @ 250 MHz
→ 1 GB SDRAM.
→ USB bootable
→ 2.4 GHz & 5 GHz IEE 802.11 wireless LAN
→ Gigabit ethernet over USB.
→ 4 USB 2.0 ports.

Feature	PI 1B.	PI 1B+.	PI 2B.	PI 3B.
Architecture	ARMV6Z 32 bit	ARMV6Z 32bit.	ARM7-A 32bit.	ARM V8-A 64/32 bit.
CPU.	700MHz. ARM 1176JZF-S	700MHz ARM1176JZF-S.	900MHz. ARM cortex-A7	1.2GHz ARM cortex-A53
cores.	1.	1.	4	4
RAM.	512MB	512MB.	1GB.	1GB.
OS.	linux based	linux Based	linux Based	linux beued
USB 2.0 ports.	2. -	4.	4.	4.