## **Smart Pet Feeder**

while(WiFi.status() != WL\_CONNECTED){

delay(5000);

VARIABLE (a)

Serial.println("\nConnected.");

WiFi.begin(ssid, pass); // Connect to WPA/WPA2 network. Change this line if using open or WEP network

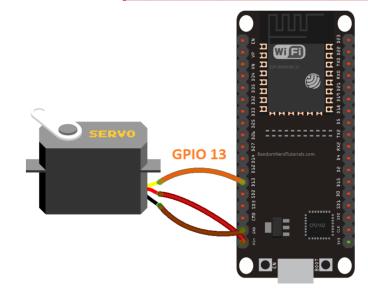
 $int\ a=ThingSpeak.readIntField(myChannelNumber,\ 1,\ myReadAPIKey);\ //READ\ THE\ VALUE\ FROM\ FIELD\ AND\ STORE\ IN\ AND\ S$ 

```
Abstract:
 In Many Cases We Come Across Situations Like We Have to Go Out of Station but There Is No One To Feed Our Pets I Formatted: Font: 10 pt
 Fishes and Birds When We Aren't Present.
                                                                                                                         Formatted: Font: 10 pt
 Many Of My Friends and I Personally Face Thus Problem Hence to Solve Up This Problem We Came Up with A Solut Formatted: Font: 10 pt
 Called "Smart Pet Feeder" Which Feeds Our Birds Automatically with Just One Click of Our Mobile and Also Using Goo
                                                                                                                         Formatted: Font: 10 pt
 Assistant from Anywhere.
                                                                                                                         Formatted: Indent: Left: -1 cm
 Components Used:
                                                                                                                         Formatted: Font: 10 pt
   1. Esp32 Microcontroller
                                                                                                                         Formatted: Font: 10 pt
   2. Servo Motor
                                                                                                                         Formatted: Font: 10 pt
Software Used:
                                                                                                                         Formatted: Font: 10 pt
        Arduino IDE
                                                                                                                         Formatted: Font: 10 pt
        Ifttt – If This Then That
                                                                                                                         Formatted: Font: 10 pt
       Thingspeak Cloud Server
                                                                                                                         Formatted: Font: 10 pt
                                                      Program
                                                                                                                         Formatted: Font: 10 pt
                                                                                                                         Formatted: Font: 10 pt
 #include<WiFi.h>
                                                                                                                         Formatted: Font: 14 pt
 #include <ESP32Servo.h>
 #include <ThingSpeak.h>
                                                                                                                         Formatted: Left
                                                                                                                         Formatted: Font: 10 pt
 char ssid[] = "your wifi network name"; // your network SSID (name)
 char pass[] = "password";
                                                                                                                         Formatted: Indent: Left: -0.63 cm
                                                                                                                         Formatted: Font: 14 pt
 WiFiClient client:
                                                                                                                         Formatted: Left
 unsigned long myChannelNumber = XXXXXXX;
 const char * myReadAPIKey = "your read API key goes here";
                                                                                                                         Formatted: Font: Garamond, 9 pt, Bold
                                                                                                                         Formatted: Font: Garamond, 9 pt, Bold
 #define SERVO_PIN 13
                             // ESP32 pin 13connected to servo motor
                                                                                                                         Formatted: List Paragraph, Numbered + Level: 1 +
 Servo servoMotor;
                                                                                                                         Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment:
 int a;
                                                                                                                         Left + Aligned at: -0.62 cm + Indent at: 0.02 cm
 void setup() {
                                                                                                                         Formatted: Font color: Green
  WiFi.mode(WIFI_STA);
                                                                                                                         Formatted: Font: 9 pt
  Serial.begin(115200);
  ThingSpeak.begin(client);
                                                                                                                         Formatted: Indent: Left: -1 cm, Space After: 0 pt
  servoMotor.attach(SERVO_PIN); // attaches the servo on ESP32 pin
 void loop() {
   if(WiFi.status() != WL_CONNECTED){
   Serial.print("Attempting to connect to SSID: ");
```

```
Serial.println("Door State");
Serial.print(a);
delay(1000);
servoMotor.write(90);

if (a==0){
    servoMotor.write(180);
}
else{
    servoMotor.write(90);
}
//END OF PROGRAM
```

## Circuit Diagram



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