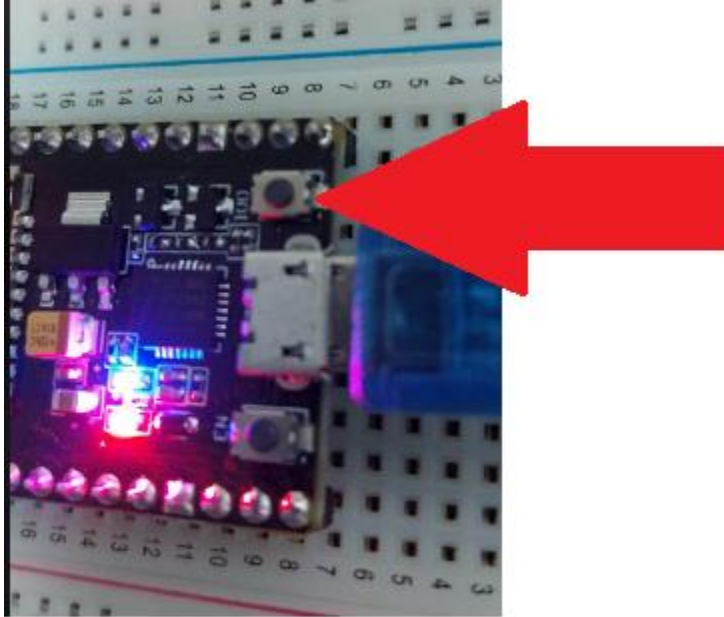


How to Upload the Arduino Code in ESP32 board.

1. **Press and hold** the **IDO** button in the ESP32 board.



2. Click the **Upload** button in the Arduino IDE.

3. Once you see the message “**Connecting**” in the display below the Arduino IDE, release the **IDO** button from Step 1.

```
24
25 // the setup function runs once when you press reset or power the board
26 void setup() {
27   // initialize digital pin LED_BUILTIN as an output.
28   pinMode(LED_BUILTIN, OUTPUT);
29 }
30
31 // the loop function runs over and over again forever
32 void loop() {
33   digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the volt
34   delay(1000); // wait for a second
35   digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the vo
36   delay(1000); // wait for a second

```

Output

```
Sketch uses 198834 bytes (15%) of program storage space. Maximum is 1310720 by
Global variables use 13248 bytes (4%) of dynamic memory, leaving 314432 bytes
esptool.py v3.0-dev
Serial port COM3
Connecting.....
```

4. Then you should see the Uploading sequence in the display.

```
28 | pinMode(LED_BUILTIN, OUTPUT);
29 | }
30 |
31 | // the loop function runs over and over again forever
32 | void loop() {
33 |   digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
34 |   delay(1000); // wait for a second
35 |   digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage LOW
36 |   delay(1000); // wait for a second
```

Output

```
Writing at 0x00020000... (71 %)
Writing at 0x00024000... (85 %)
Writing at 0x00028000... (100 %)
Wrote 198944 bytes (102968 compressed) at 0x00010000 in 1.7 seconds (effective 910.0 kbit/s)...
Hash of data verified.
Compressed 3072 bytes to 128...
Writing at 0x00008000... (100 %)
Wrote 3072 bytes (128 compressed) at 0x00008000 in 0.0 seconds (effective 2730.6 kbit/s)...
Hash of data verified.

Leaving...
Hard resetting via RTS pin...
```

And you will also see Done Uploading message.

```
27 | // initialize digital pin LED_BUILTIN as an output.
28 | pinMode(LED_BUILTIN, OUTPUT);
29 | }
30 |
31 | // the loop function runs over and over again forever
32 | void loop() {
33 |   digitalWrite(LED_BUILTIN, HIGH); // turn the LED on (HIGH is the voltage level)
34 |   delay(1000); // wait for a second
35 |   digitalWrite(LED_BUILTIN, LOW); // turn the LED off by making the voltage LOW
36 |   delay(1000); // wait for a second
```

Output

```
Writing at 0x00020000... (71 %)
Writing at 0x00024000... (85 %)
Writing at 0x00028000... (100 %)
Wrote 198944 bytes (102968 compressed) at 0x00010000 in 1.7 seconds (effective 916.3 kbit/s)...
Hash of data verified.
Compressed 3072 bytes to 128...
Writing at 0x00008000... (100 %)
Wrote 3072 bytes (128 compressed) at 0x00008000 in 0.0 seconds (effective 2048.0 kbit/s)...
Hash of data verified.

Leaving...
Hard resetting via RTS pin...
```

Done uploading.