Task 2

we program the ESP32 mainly with Arduino IDE

There's an add-on for the Arduino IDE allows you to program the ESP32 using the Arduino IDE and its programming language.

1- Upload Code to the ESP32 using Arduino IDE
Blink
*/

```
// ledPin refers to ESP32 GPIO 23
const int ledPin = 23;

// the setup function runs once when you press reset or power the board
void setup() {
  // initialize digital pin ledPin as an output.
  pinMode(ledPin, OUTPUT);
}

// the loop function runs over and over again forever
void loop() {
  digitalWrite(ledPin, HIGH);   // turn the LED on (HIGH is the voltage level)
  delay(1000);            // wait for a second
  digitalWrite(ledPin, LOW);    // turn the LED off by making the voltage LOW
  delay(1000);             // wait for a second
}
```
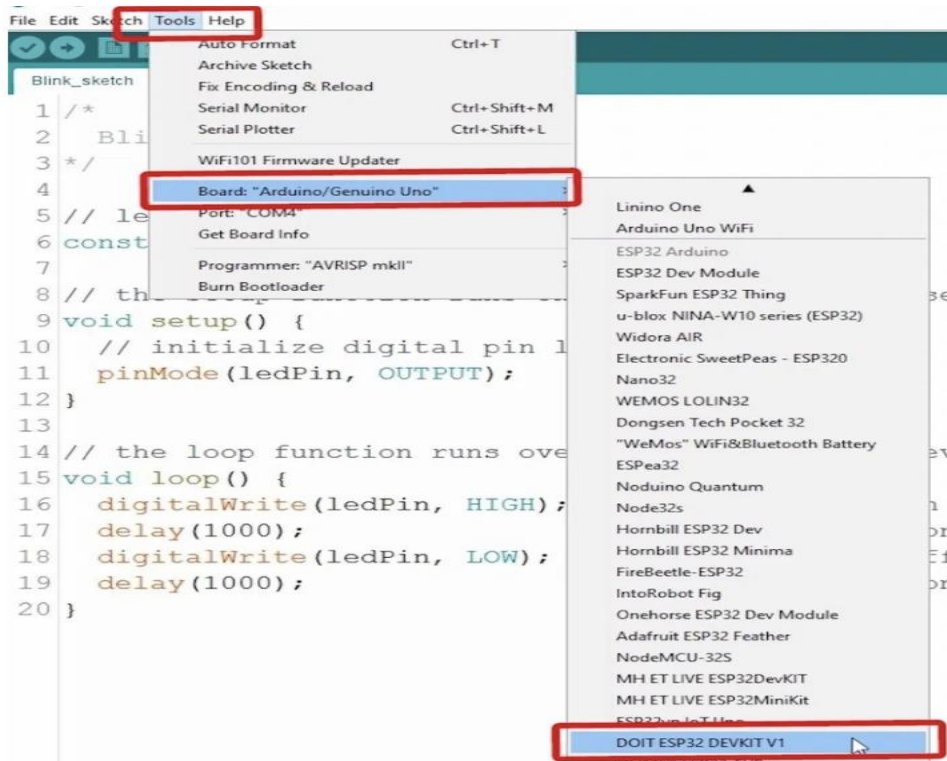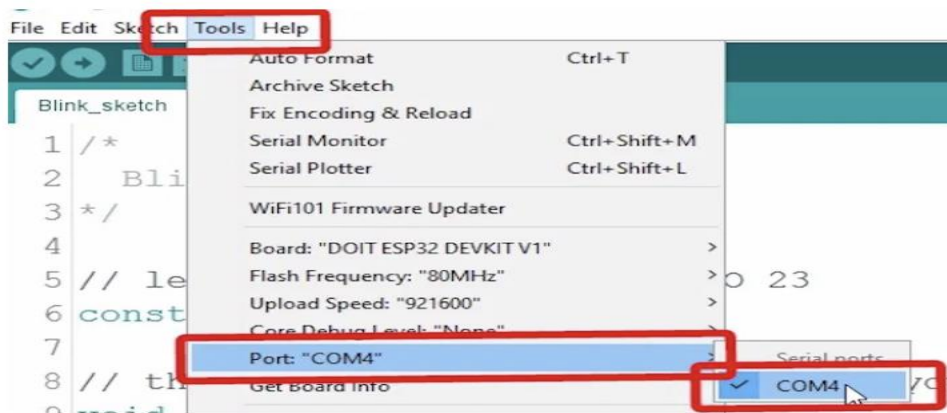
2- Plug your ESP32 development board to your computer and follow these next instructions:

3- Go to **Tools** > **Board**, scroll down to the ESP32 section and select the name of your ESP32 board. In my case, it's the DOIT ESP32 DEVKIT V1 board.
2) Go to **Tools** > **Port** and select a COM port available.

4- Press the upload button

That's it!

Note: If you get the following error when trying to upload code, it means that your ESP32 is not in flashing/uploading mode.