```
#include <EloquentTinyML.h>
#include <eloquent_tinyml/tensorflow.h>
#include "iris_model_data.h"
#define NUMBER OF INPUTS 4
#define NUMBER_OF_OUTPUTS 3
#define TENSOR_ARENA_SIZE 2 * 1024 // Increased to 4KB for stability
Eloquent::TinyML::TensorFlow:TensorFlow<NUMBER_OF_INPUTS, NUMBER_OF_OUTPUTS,
TENSOR_ARENA_SIZE> ml;
// Test each input if one input is under test keep another input inside the comments
//float input[NUMBER OF INPUTS] = {-0.8977, 1.0156, -1.3049, -1.2559};
float input[NUMBER_OF_INPUTS] = {7.0, 3.2, 4.7, 1.4};
void setup() {
 Serial.begin(115200);
 delay(4000); // Increased delay for serial monitor connection
 // Initialize model with error checking
 if (!ml.begin(iris model)) {
  Serial.println(" ! Failed to initialize model!");
  Serial.print("Error: ");
  Serial.println(ml.getErrorMessage());
  while (true); // Halt on failure
 Serial.println(" ⊘ Model initialized successfully");
 // Run inference with error checking
 float output[NUMBER OF OUTPUTS];
 int st_time = micros();
 ml.predict(input, output);
 int en_time = micros();
 Serial.println(" Predictions:");
 for (int i = 0; i < NUMBER_OF_OUTPUTS; i++) {
  Serial.print("Class");
  Serial.print(i);
  Serial.print(": ");
  Serial.println(output[i], 5);
 float max_prob = output[0];
 int predicted class = 0;
 for (int i = 1; i < NUMBER_OF_OUTPUTS; i++) {
  if (output[i] > max_prob) {
   max_prob = output[i];
   predicted_class = i;
  }
  Serial.println();
  Serial.print("✓ Predicted Class:");
  Serial.println(predicted_class);
  Serial.print("Inference Time:");
  Serial.print(en_time-st_time);
  Serial.println("micro sec.");
void loop() {
 // Empty
```