12.Save, read data in Flash Memory of ESP 32(Practical)

#include <EEPROM.h>

void setup() {

  Serial.begin(115200);

  // Write data to flash memory

  writeDataToFlash();

  // Read data from flash memory

  readDataFromFlash();

}

void loop() {

  // Nothing to do here

}

void writeDataToFlash() {

  // Data to be stored in flash memory

  int dataToWrite = 123456;

  // Begin EEPROM

  EEPROM.begin(sizeof(dataToWrite));

  // Write data to flash memory

  EEPROM.put(0, dataToWrite);

  EEPROM.commit();

  // End EEPROM

  EEPROM.end();

}

void readDataFromFlash() {

  // Variable to store read data

  int dataRead;

  // Begin EEPROM

  EEPROM.begin(sizeof(dataRead));

  // Read data from flash memory

  EEPROM.get(0, dataRead);

  // End EEPROM

  EEPROM.end();

  // Print the read data

  Serial.print("Data read from flash memory: ");

  Serial.println(dataRead);

}

Output:

rst:0x1 (POWERON\_RESET),boot:0x13 (SPI\_FAST\_FLASH\_BOOT)

configsip: 0, SPIWP:0xee

clk\_drv:0x00,q\_drv:0x00,d\_drv:0x00,cs0\_drv:0x00,hd\_drv:0x00,wp\_drv:0x00

mode:DIO, clock div:1

load:0x3fff0030,len:4916

load:0x40078000,len:16436

load:0x40080400,len:4

ho 8 tail 4 room 4

12.Testing of EEPROM memory of ESP 32(Skill)

#include <EEPROM.h>

int EEPROM\_SIZE = 4096; // Adjust as needed

void setup() {

  Serial.begin(115200);

  EEPROM.begin(EEPROM\_SIZE);

  // Write a value to EEPROM

  int valueToWrite = 123;

  EEPROM.put(0, valueToWrite);

  EEPROM.commit();

  // Read the value back from EEPROM

  int valueFromEEPROM;

  EEPROM.get(0, valueFromEEPROM);

  // Print the values for verification

  Serial.print("Value written to EEPROM: ");

  Serial.println(valueToWrite);

  Serial.print("Value read from EEPROM: ");

  Serial.println(valueFromEEPROM);

}

void loop() {

  // No need to do anything in loop for this test

}

Output:

load:0x3fff0030,len:4916

load:0x40078000,len:16436

load:0x40080400,len:4

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load:0x40080404,len:3524

entry 0x400805b8

Data read from flash memory: 123456