1. Locate the file that needs to be modified.
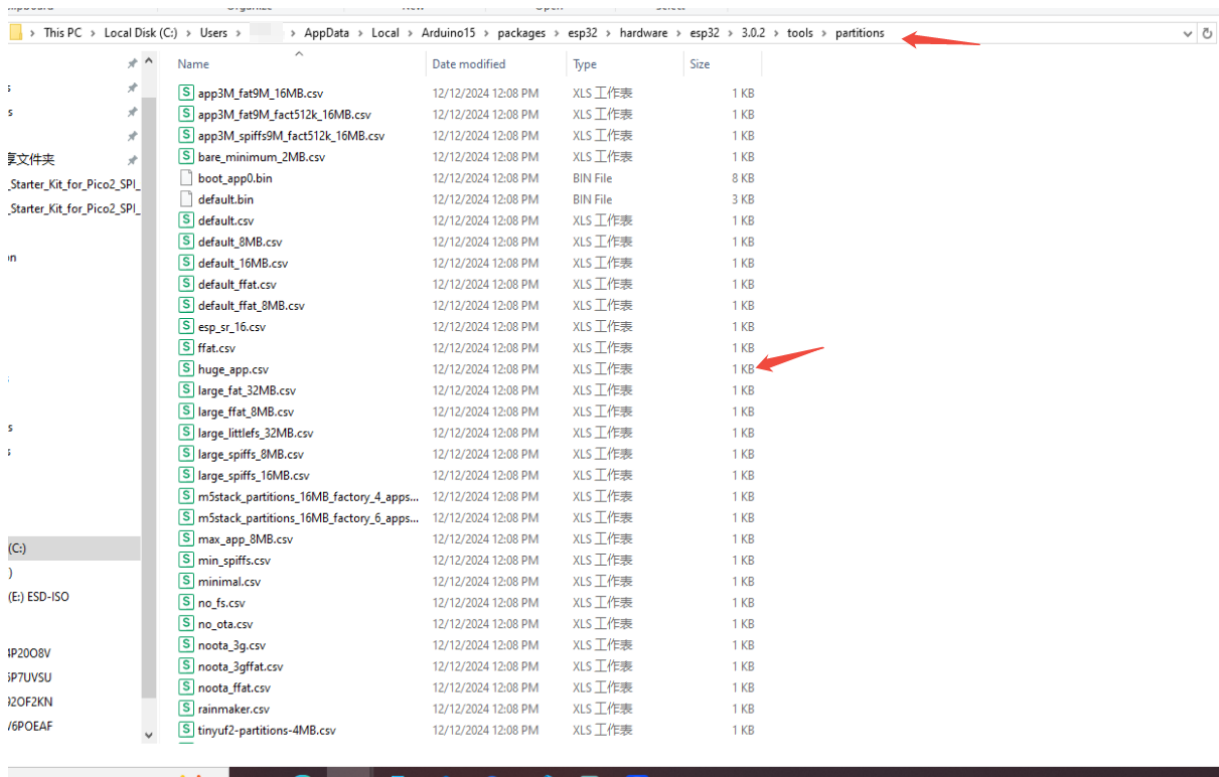
2. Find the section to be changed.

Here, Offset represents the starting address in memory, and Size represents the size of the memory block.

If you encounter a memory overflow error during compilation, you may need to increase the size of app0.

For example, if you increase the size of app0 to 0x350000, then the starting address of spiffs becomes:

0x10000 + 0x350000 = 0x360000

and the new size of spiffs should be set to 0x90000.

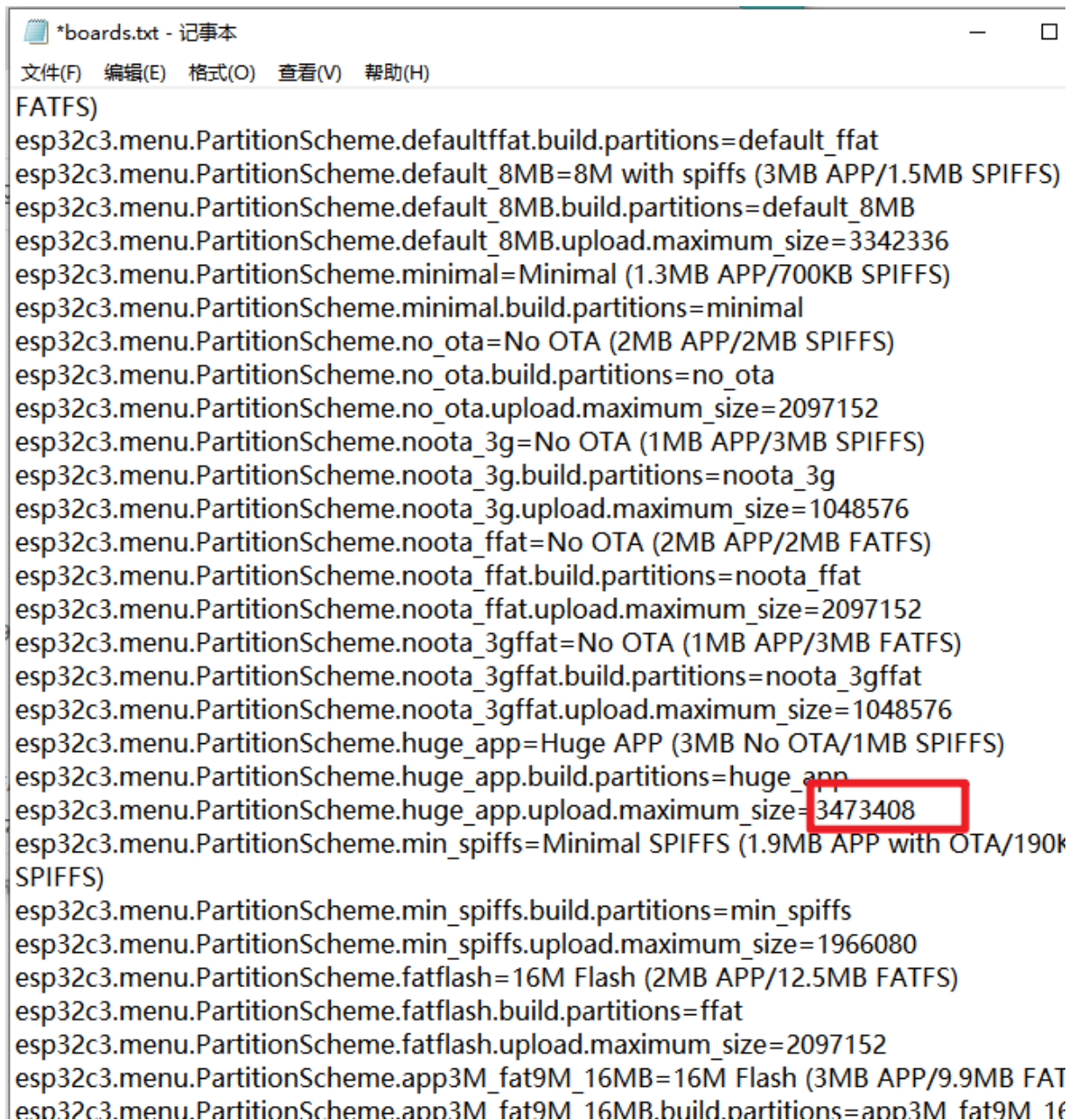| # Name	Type	SubType	Offset	Size	
nvs	dat	nvs	0x9000	0x5000	
otadata	data	ota	0xe000	0x2000	
app0	app	ota_0	0x10000	0x350000	
spiffs	data	spiffs	0x360000	0x90000	
coredump	data	coredump	0x3F0000	0x10000	

3. Modify the size of app0.
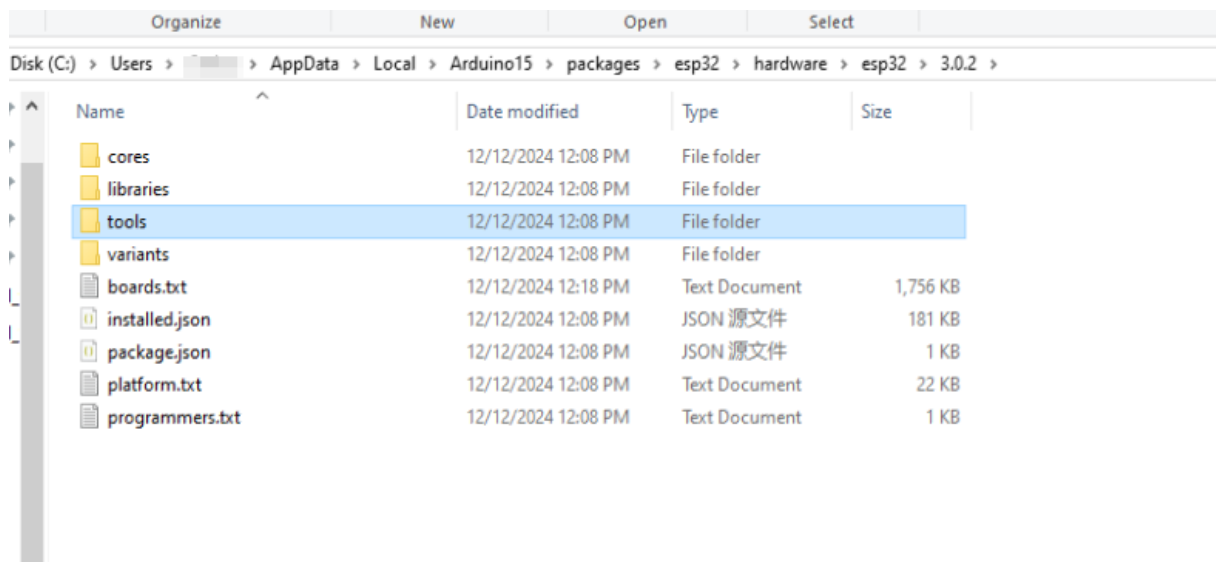
Open the boards.txt file, locate the configuration for your board (e.g., **ESP32C3 Dev Module**), and update the app0 size.

```
esp32c3.menu.PartitionScheme.no_fs=No FS 4MB (2MB APP x2)
esp32c3.menu.PartitionScheme.no_fs.build.partitions=no_fs
esp32c3.menu.PartitionScheme.no_fs.upload.maximum_size=2031616
esp32c3.menu.PartitionScheme.no_ota=No OTA (2MB APP/2MB SPIFFS)
esp32c3.menu.PartitionScheme.no_ota.build.partitions=no_ota
esp32c3.menu.PartitionScheme.no_ota.upload.maximum_size=2097152
esp32c3.menu.PartitionScheme.noota_3g=No OTA (1MB APP/3MB SPIFFS)
esp32c3.menu.PartitionScheme.noota_3g.build.partitions=noota_3g
esp32c3.menu.PartitionScheme.noota_3g.upload.maximum_size=1048576
esp32c3.menu.PartitionScheme.noota_ffat=No OTA (2MB APP/2MB FATFS)
esp32c3.menu.PartitionScheme.noota_ffat.build.partitions=noota_ffat
esp32c3.menu.PartitionScheme.noota_ffat.upload.maximum_size=2097152
esp32c3.menu.PartitionScheme.noota_3gffat=No OTA (1MB APP/3MB FATFS)
esp32c3.menu.PartitionScheme.noota_3gffat.build.partitions=noota_3gffat
esp32c3.menu.PartitionScheme.noota_3gffat.upload.maximum_size=1048576
esp32c3.menu.PartitionScheme.huge_app=Huge APP (3MB No OTA/1MB SPIFFS)
esp32c3.menu.PartitionScheme.huge_app.build.partitions=huge_app
esp32c3.menu.PartitionScheme.huge_app.upload.maximum_size=3145728
esp32c3.menu.PartitionScheme.min_spiffs=Minimal SPIFFS (1.9MB APP with OTA/190KB SPIFFS)
esp32c3.menu.PartitionScheme.min_spiffs.build.partitions=min_spiffs
esp32c3.menu.PartitionScheme.min_spiffs.upload.maximum_size=1966080
esp32c3.menu.PartitionScheme.fatflash=16M Flash (2MB APP/12.5MB FATFS)
esp32c3.menu.PartitionScheme.fatflash.build.partitions=ffat
esp32c3.menu.PartitionScheme.fatflash.upload.maximum_size=2097152
esp32c3.menu.PartitionScheme.app3M_fat9M_16MB=16M Flash (3MB APP/9.9MB FATFS)
esp32c3.menu.PartitionScheme.app3M_fat9M_16MB.build.partitions=app3M_fat9M_16MB
esp32c3.menu.PartitionScheme.app3M_fat9M_16MB.upload.maximum_size=3145728
```

Ln 864, Col 66   100%   Unix (LF)   UTF-8

⊗ Compilation error: Adafruit_SSD1306.h: No

The value should be the decimal equivalent of 0x350000 from step 2 , which is **3473408**.

```
*boards.txt - 记事本                                         —   □

文件(F)  编辑(E)  格式(O)  查看(V)  帮助(H)

FATFS)
esp32c3.menu.PartitionScheme.defaultffat.build.partitions=default_ffat
esp32c3.menu.PartitionScheme.default_8MB=8M with spiffs (3MB APP/1.5MB SPIFFS)
esp32c3.menu.PartitionScheme.default_8MB.build.partitions=default_8MB
esp32c3.menu.PartitionScheme.default_8MB.upload.maximum_size=3342336
esp32c3.menu.PartitionScheme.minimal=Minimal (1.3MB APP/700KB SPIFFS)
esp32c3.menu.PartitionScheme.minimal.build.partitions=minimal
esp32c3.menu.PartitionScheme.no_ota=No OTA (2MB APP/2MB SPIFFS)
esp32c3.menu.PartitionScheme.no_ota.build.partitions=no_ota
esp32c3.menu.PartitionScheme.no_ota.upload.maximum_size=2097152
esp32c3.menu.PartitionScheme.noota_3g=No OTA (1MB APP/3MB SPIFFS)
esp32c3.menu.PartitionScheme.noota_3g.build.partitions=noota_3g
esp32c3.menu.PartitionScheme.noota_3g.upload.maximum_size=1048576
esp32c3.menu.PartitionScheme.noota_ffat=No OTA (2MB APP/2MB FATFS)
esp32c3.menu.PartitionScheme.noota_ffat.build.partitions=noota_ffat
esp32c3.menu.PartitionScheme.noota_ffat.upload.maximum_size=2097152
esp32c3.menu.PartitionScheme.noota_3gffat=No OTA (1MB APP/3MB FATFS)
esp32c3.menu.PartitionScheme.noota_3gffat.build.partitions=noota_3gffat
esp32c3.menu.PartitionScheme.noota_3gffat.upload.maximum_size=1048576
esp32c3.menu.PartitionScheme.huge_app=Huge APP (3MB No OTA/1MB SPIFFS)
esp32c3.menu.PartitionScheme.huge_app.build.partitions=huge_app
esp32c3.menu.PartitionScheme.huge_app.upload.maximum_size=3473408
esp32c3.menu.PartitionScheme.min_spiffs=Minimal SPIFFS (1.9MB APP with OTA/190K
SPIFFS)
esp32c3.menu.PartitionScheme.min_spiffs.build.partitions=min_spiffs
esp32c3.menu.PartitionScheme.min_spiffs.upload.maximum_size=1966080
esp32c3.menu.PartitionScheme.fatflash=16M Flash (2MB APP/12.5MB FATFS)
esp32c3.menu.PartitionScheme.fatflash.build.partitions=ffat
esp32c3.menu.PartitionScheme.fatflash.upload.maximum_size=2097152
esp32c3.menu.PartitionScheme.app3M_fat9M_16MB=16M Flash (3MB APP/9.9MB FAT
esp32c3.menu.PartitionScheme.app3M_fat9M_16MB.build.partitions=app3M_fat9M_16
```

4. After making the changes, save the file and restart the Arduino IDE.

Note: You can adjust the sizes according to your actual needs.