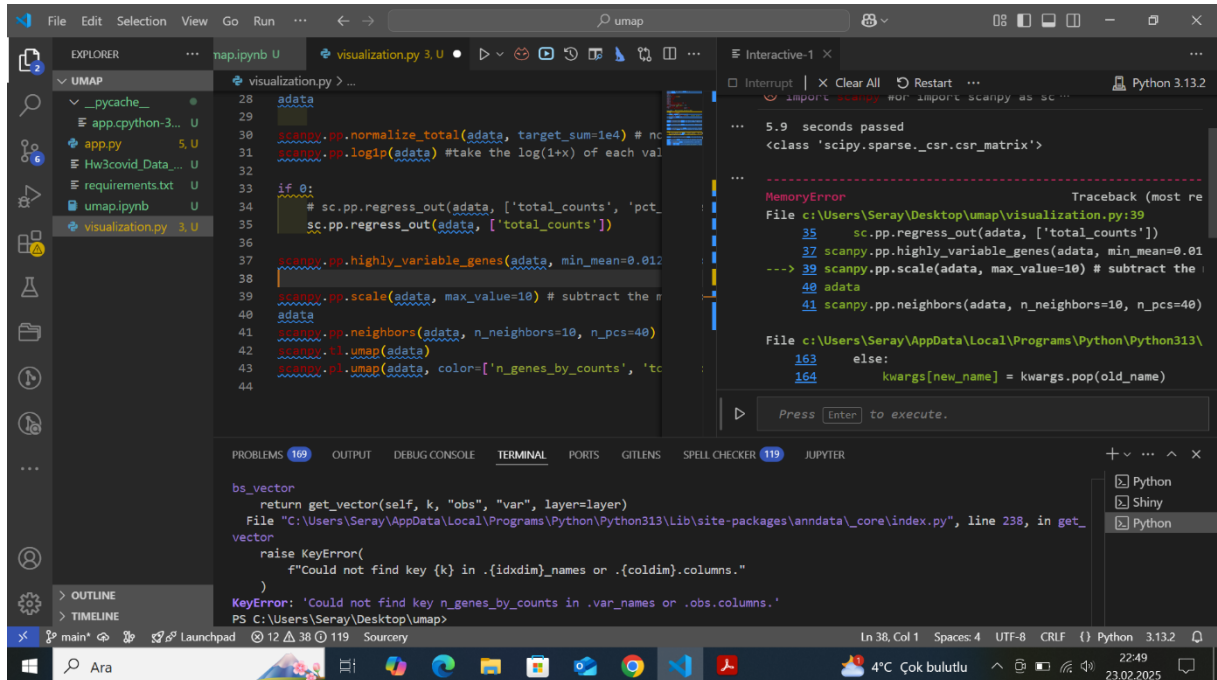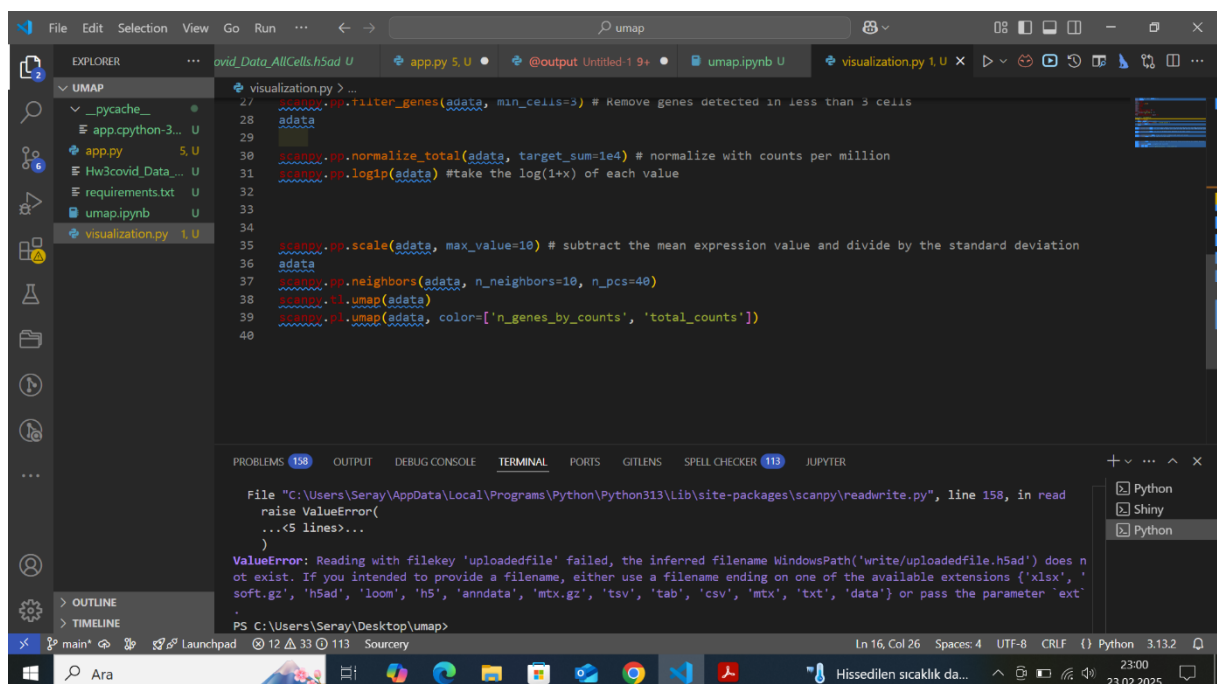**ERRORS**

There have been some challenges in this Project. Here are 5 of them that I've understood.
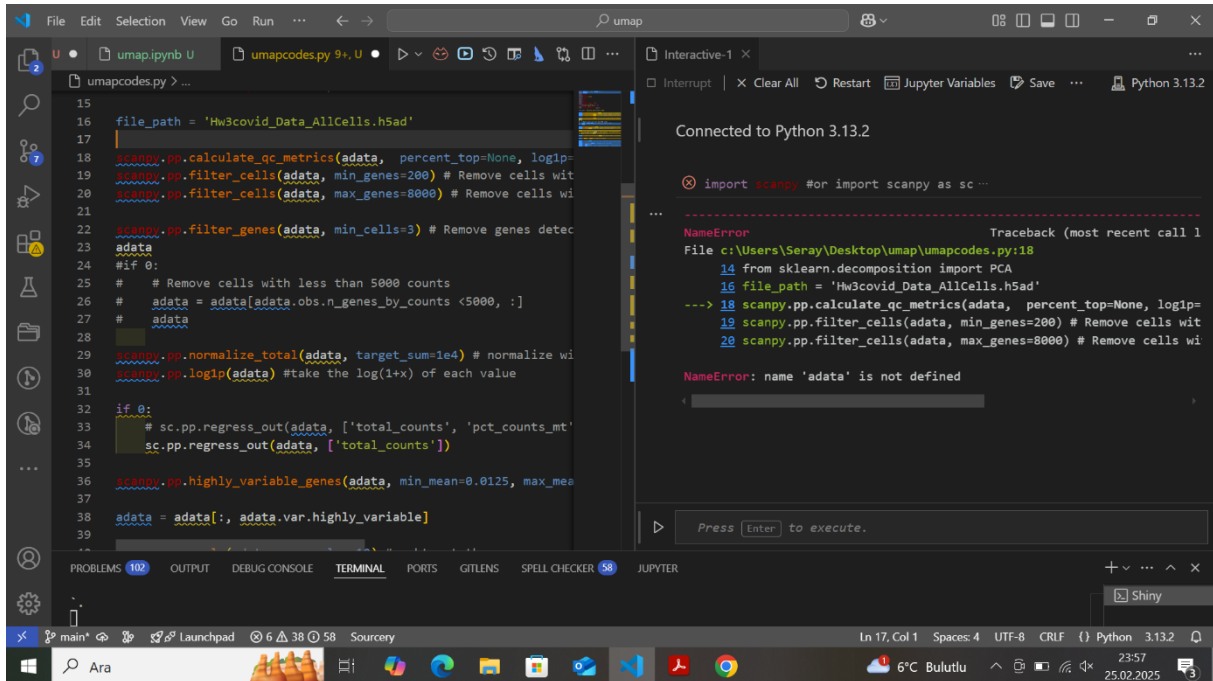
1. Memory Error



I've faced this error because of the fact that I've deleted essential codes being used in the data cleaning and clustering part. In this case we have a very large dataset which needs to be properly handled if not, it could result in errors such as these. What I did was to write the needed codes so that we can work with only the needed part.

2. ValueError

Here, I've gotten a value error because I've created a variable with the name uploadedfile but infact didn't add any values to it. What I tried to do was creating an empty variable. I couldn't fix the problem here so I deleted the variable and continued with the already existing ones so that they connected and the variable was no longer unmeaningful.
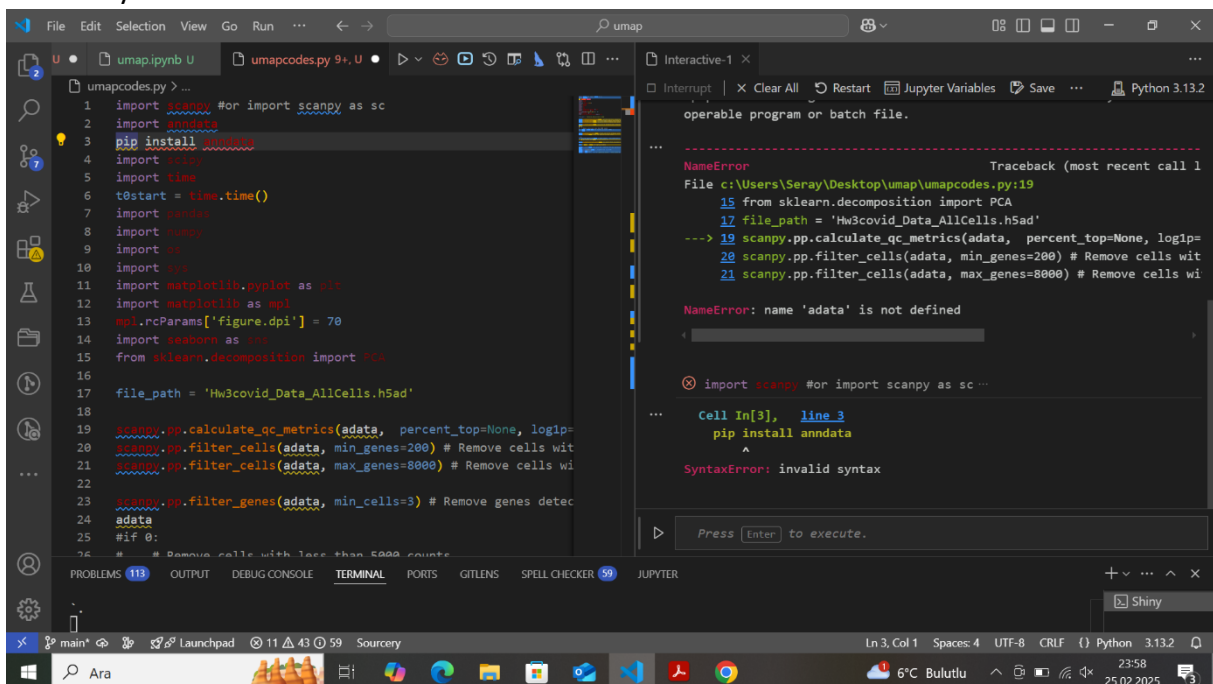
3. NameError



I've solved this problem by gathering the codes in a function. When I used def adata was no longer unknown to the code.

4. Syntax Error

I'm still not really sure why it kept giving syntax error when I tried to pip install anndata because I tried both typing it with ! and without. Because of this I'm thinking the main error was connected to gathering the codes in a function. Also maybe it gave this error because anndata was already installed. I deleted this unneccesary code.

5. IdentitationError



This happened because the code was not inside the if function. But this was not that neccesary so I deleted the code instead.