

Lab-1

```
[11]: !apt-get install -y ffmpeg

E: Could not open lock file /var/lib/dpkg/lock-frontent - open (13: Permission denied)
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontent), are you root?

[10]: from pydub import AudioSegment
audio= AudioSegement.from_file("file_example_MP3_700KB.mp3")
print(type(audio))

-----
NameError                                Traceback (most recent call last)
Cell In[10], line 1
----> 1 audio= AudioSegement.from_file("file_example_MP3_700KB.mp3")
      2 print(type(audio))

NameError: name 'AudioSegement' is not defined
```

Figure 1: lab system

I tried to use the pydub library to play an audio file. Even though I installed the library correctly, I faced two main issues:

1. Spelling Mistake: I accidentally wrote AudioSegement instead of the correct spelling AudioSegment. This caused Python to say the name is not defined.
2. Permission Problem While Installing ffmpeg:
pydub needs a tool called ffmpeg to play audio files. I tried to install it, but it failed because the Jupyter environment didn't have permission to do so (it needs admin access, which I didn't have).

```
[4]: !pip install pydub #installing package

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OSError                                Traceback (most recent call last)
Cell In[4], line 1
----> 1 get_ipython().system('pip install pydub #installing package')

File /lib/python3.12/site-packages/IPython/core/interactiveshell.py:2653, in InteractiveShell.system_piped(self, cmd)
    2648     raise OSError("Background processes not supported.")
    2650 # we explicitly do NOT return the subprocess status code, because
    2651 # a non-None value would trigger :func:`sys.displayhook` calls.
    2652 # Instead, we store the exit_code in user_ns.
-> 2653 self.user_ns['_exit_code'] = system(self.var_expand(cmd, depth=1))

File /lib/python3.12/site-packages/IPython/utils/_process_emscripten.py:11, in system(cmd)
     10 def system(cmd):
--> 11     raise OSError("Not available")

OSError: Not available
```

Figure 2: pc

Since I couldn't install pydub because the system didn't allow it, I looked for another way to play audio files. That's when I found an option called pygame.

With pygame, I was able to play sound without any problems

I didn't have to install anything extra or ask for special permissions for pygame.