

Software Report

AI1110: Probability and Random Variables

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(a) Introduction

This project is to play songs randomly and no song is supposed to be repeated. Using movie.py editor videos converted into audio playlist. playsound library for audio playback. os for importing the files, random for random selection of songs.

(b) Implementation

This project uses python and these are the steps followed.

(a) Extraction of audio: The programme list of all the video files in a folder converted to audio files
The link for this is:

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(b) *File selection and Randomization* : After providing path of folder containing files, the program list of all the audio files
The link for this is :

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Audio playback: The playsound library is used to load and play the audio files. This plays the songs in a sequence .

(c) Usage

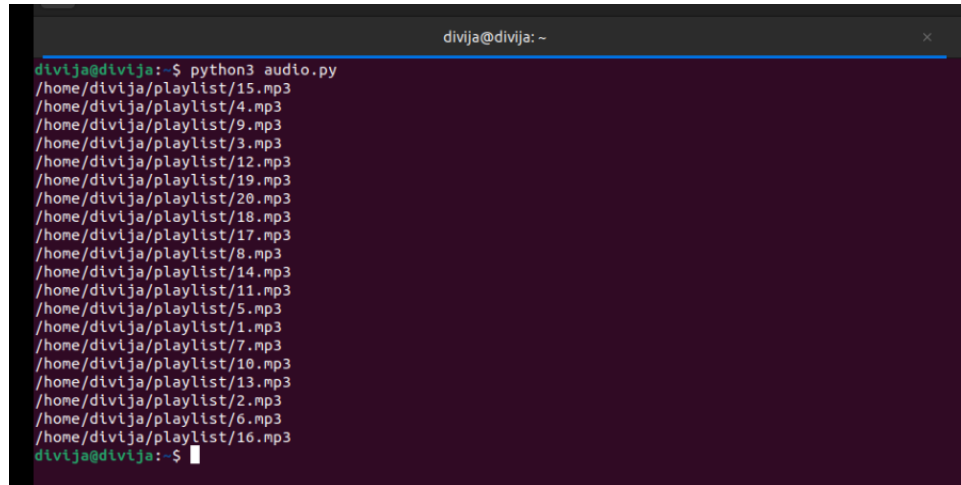
To use this program these steps are to be followed:

- 1) Run the python program to extract the audio
- 2) Provide the path of folder containing audio files and Randomize these audio files
- 3) Play the songs after shuffling using python code

(d) Conclusion

The project successfully achieves its main goal to create play randomly in a selected playlist with GUI functionally. This program makes users to enjoy the collection of the songs. This greatly reflects the use of python in creating a enjoyable randomly played audio playlist experience

(e) Image

A terminal window with a dark purple background and a title bar that reads "divija@divija: ~". The terminal shows the command "python3 audio.py" being executed, which outputs a list of 20 MP3 files from a playlist. The files are listed in a non-sequential order: 15, 4, 9, 3, 12, 19, 20, 18, 17, 8, 14, 11, 5, 1, 7, 10, 13, 2, 6, and 16. The prompt "divija@divija: ~\$" is visible at the bottom of the terminal.

```
divija@divija: ~  
divija@divija:~$ python3 audio.py  
/home/divija/playlist/15.mp3  
/home/divija/playlist/4.mp3  
/home/divija/playlist/9.mp3  
/home/divija/playlist/3.mp3  
/home/divija/playlist/12.mp3  
/home/divija/playlist/19.mp3  
/home/divija/playlist/20.mp3  
/home/divija/playlist/18.mp3  
/home/divija/playlist/17.mp3  
/home/divija/playlist/8.mp3  
/home/divija/playlist/14.mp3  
/home/divija/playlist/11.mp3  
/home/divija/playlist/5.mp3  
/home/divija/playlist/1.mp3  
/home/divija/playlist/7.mp3  
/home/divija/playlist/10.mp3  
/home/divija/playlist/13.mp3  
/home/divija/playlist/2.mp3  
/home/divija/playlist/6.mp3  
/home/divija/playlist/16.mp3  
divija@divija: ~$
```

Fig. (e). Image of played audio