Software Project Report

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<u>AIM</u>:- To make an audioplayer in which songs can be played in random order.

Scripting Language :- Python (3.10.6)

Libraries Used:

- 1) Numpy Library,
- 2) Playsound Library,
- 3) Pygame,
- 4) Tkinter.

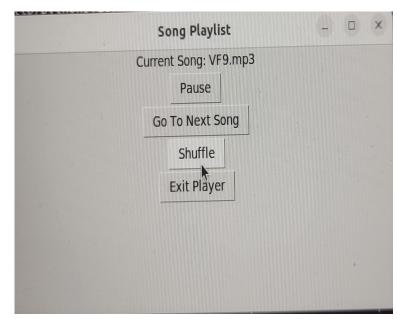


Image of the output of the code

Mechanism:-

- 1) Import numpy, pygame, random and tkinter library using 'pip install'.
- 2) Give the directory of the songs to the directory locator so that songs can be accessed.
- 3) Making a list of audio files.
- 4) Buttons for 'Play Next Song' and
- 5) Play the songs according to their position is the playlist.
- 6) If all the songs are played once in the loop, then a new random list of the songs is generated.
- 7) This process continues till the program is exited.

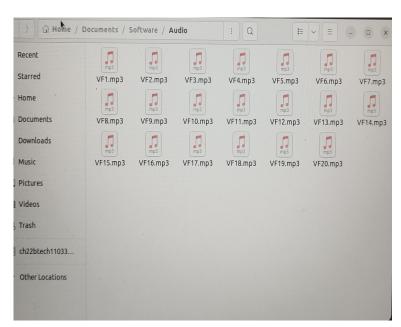


Image of the playlist folder

<u>Conclusion</u>:- Thus, we have created a program which plays songs randomly, selected from the created playlist in the Music Folder.

Output Image :-

```
import pygame
import random
import os
import unumy as np
import soundfile as sf
from kinter import Tk, filedialog
import tkinter as tk, import tk, im
```

```
pygame.mixer.music.load(shuffled_playlist[current_song_index])
pygame.mixer.music.play()

def update.current.song_label():
    current.song_label.comfig(text=f'Current song: (os.path.basename(playlist[current_song_index]))*)

def start_stog():
    global paused
    if paused:
        ppagme.nixer.music.unpause()
        paused = False
        play_pause() puton.config(text=fPause')

else:
        ppagme.nixer.music.pause()
        paused = True
        play_pause() paylist()

def exit_player():
        pygame.nixt()
        pygame.nixt()
        pygame.nixt()

Bloylist = get_music_files(music_folder()

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        current_song_index = conse_music_folder()

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        current_song_index = conse_music_folder()
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```
pygame.ntxer.nustc.stop
window.quit()

pygame.tntt()
music_folder = choose_music_folder()

playlist = get_music_files(music_folder)
current_song_index = 0

shuffle_playlist()

### Create the GUI
window = tk.Tk()
window = tk.Tk()
window.seometry("soex250")
window.seometry("soex250")
current_song_label = tk.label(window, text="Playing: ")
current_song_label = tk.label(window, text="Playing: ")
current_song_label_pack()
paused = False
play_pause_button = tk.Button(window, text="Pause", command=start_stop)
play_pause_button = tk.Button(window, text="Go To Next Song", command=next_song)
next_song_button = tk.Button(window, text="Go To Next Song", command=next_song)
next_song_button = tk.Button(window, text="Shuffle", command=shuffle_songs)
shuffle_button = tk.Button(window, text="Shuffle", command=shuffle_songs)
shuffle_button = tk.Button(window, text="Exit Player", command=exit_player)
exit_button = tk.Button(window, text="Exit Player", command=exit_player)
exit_button.pack()

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Images of the code

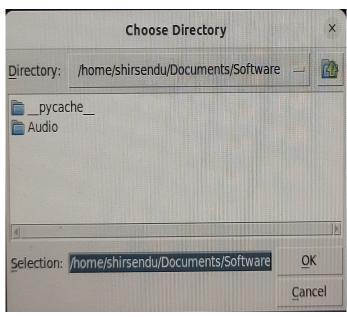


Image of the Playlist Directory Selector