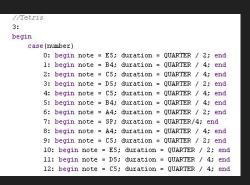


ECE 3300 - Music Player ProjectBy: Ethan Song and Meredith Toledo





if(s	ong sel ==	4'b0010)
begin	STATE OF STATE STATE STATE OF THE STATE OF T	Secretary Control of the
:	s_num <= 2	2;
	s_length <	C= 32;
	vga_disp =	4'b0010;
end		
if(s	ong_sel ==	4'b0100)
quency (Hz)	Wavelength (cm)	300
16.35	2109.89	
17 32	1991 47	03;

b0100;

21000	rrequency (rm)	marciongai (citi)
C ₀	16.35	2109.89
C#0/Db0	17.32	1991.47
D ₀	18.35	1879.69
D#0/Eb	19.45	1774.20
E ₀	20.60	1674.62
F ₀	21.83	1580.63
F# ₀ /G ^b ₀	23.12	1491.91
G ₀	24.50	1408.18
C# 14b	25.06	1200.14

Note Fre

Objective

- Create a music player capable of playing notes so we can add any song.
- Have inputs to change the songs.
- Have outputs to see which song is being played.

Method

- Used a previous lab to use as groundwork to play music.
- Translated sheet music to its notes and note duration and put it in the code.
- Added the ability to change songs and reset.
- Added seven segment output and VGA to show the song number playing.

Conclusion

- We have the capability to play any song, as long as it is a sheet music that can be translated.
- Timing is a bit limited and can only go down to an eighth note.