LAB 7

2017. 07. 27

ASCII CODE

10진수	부호	I0진수	부호	I0진수	부호	I0진수	부호
032		056	8	080	Р	104	h
033	!	057	9	081	Q	105	i
034	"	058	:	082	R	106	j
035	#	059	;	083	S	107	k
036	\$	060	<	084	Т	108	I
037	%	061	Ш	085	U	109	m
038	&	062	>	086	٧	110	n
039	1	063	?	087	W	111	0
040	(064	@	088	X	112	Р
041)	065	Α	089	Y	113	q
042	*	066	В	090	Z	114	r
043	+	067	С	091	[115	s
044	,	068	D	092	\	116	t
045	-	069	E	093]	117	u
046		070	F	094	۸	118	٧
047	1	071	G	095	_	119	w
048	0	072	Н	096	`	120	х
049	I	073	I	097	a	121	у
050	2	074	J	098	b	122	z
051	3	075	K	099	С	123	{
052	4	076	L	100	d	124	
053	5	077	М	101	е	125	}
054	6	078	Ν	102	f	126	~
055	7	079	0	103	g		

Example >>ord ('I') 73 >>chr(73) I

EXERCISE

I. Blend three sound.

(use bassoon-c4.wav, bassoon-e4.wav, and bassoon-g4.wav)

- Start with part of the sound I (1/4)
- Blend sound I and sound 2 (2/4)
- Blend sound 2 and sound 3 (3/4)
- End with the rest of sound 3 (4/4)



EXERCISE

2. Write a function that inputs a frequency, a maximum amplitude, and length in seconds. Using the inputs, create a triangular waves. (Hint: square waves)

- Sampling Rate = 22050
- makeEmptySoundBySeconds
- e.g.,) explore(triangleWave(60, 4000, 3))

EXERCISE: HIP-HOP DJ

- 3. Try combining backwards play and doubling the frequency of a sound. (use backpack.wav)
 - Double the frequency of the first part.
 - Reverse the first part and double its frequency.
 - End with the input sound.



EXERCISE: STEGANOGRAPHY

4. Decode the sound. A string is encoded by the XOR operation with sound.

Download steg.wav and use c4.wav

(Hint: $7 \times OR 4 \times OR 7 = 4$)