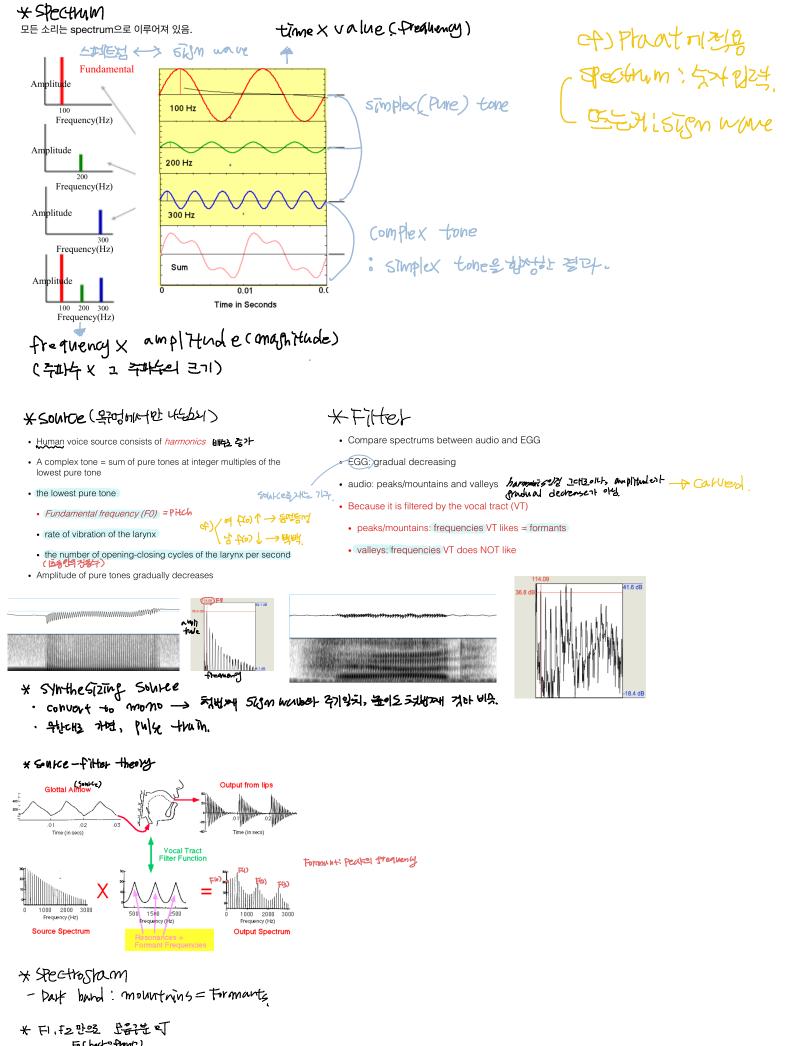
-English consonants and vowels

					1	2						
p	pie	pea		lowercase p	i	i	heed	he	bead	heat	keyed	lowercase i
t	tie	tea		lowercase t	I	I	hid		bid	hit	kid	small capital I
k	kye	key		lowercase k	eı	eı	hayed	hay	bayed	hate	Cade	lowercase e
b	by	bee		lowercase b			,	iiay		Hate	Cauc	
d	dye	D		lowercase d	3	3	head		bed			epsilon
g	guy			lowercase g	æ	æ	had		bad	hat	cad	ash
m	my	me	ra <i>m</i>	lowercase m	α	α	hard		bard	heart	card	script a
n	nigh	knee	ran	lowercase n	α	D	hod		bod	hot	cod	turned script a
ŋ			rang	eng (or angm	0	9	hawed	haw	bawd		cawed	open o
f	fie	fee		lowercase f				Havv	bawa			
v	vie	V		lowercase v	υ	υ	hood				could	upsilon
θ	thigh	41		theta	OÜ	əυ	hoed	hoe	bode		code	lowercase o
ð	thy	thee	listen	eth	u	u	who'd	who	booed	hoot	cooed	lowercase u
S	sigh	sea Z	mizzen	lowercase s lowercase z	Λ	Λ	Hudd		bud	hut	cud	turned v
z ∫(š)	shy	she	mission	esh (or long s	3,	3	herd	her	bird	hurt	curd	reversed epsilon
3 (ž)	Sily	SIIC	vision	long z (or yog		-					curu	•
3 (Z) 1	lie	lee	VISIOII	lowercase /	aı	aı	hide	high	bide	height		lowercase a (+I)
w	why	we		lowercase w	aυ	au		how	bowed		cowed	(as noted above)
r	rye			lowercase r	OI.	IC		(a)hoy	Boyd			(as noted above)
j (y)	. 7-	ye		lowercase i	ır	ıэ		here	beard			(as noted above)
h	high	he		lowercase h	εr	63		hair	bared		cared	(as noted above)
	-								barcu		careu	,
Note also the following:				air	aə	hired	hire				(as noted above)	
t∫ (tš)	chi(me)	chea(p)										
d3 (dž)	ji(ve)	G			Note also:							
					ju	ju	hued	hue	Bude		cued	(as noted above)

- -Phonetics: a study on speech
- 1. Articulatory phonetics(from mouth): how to produce speech
- 2. Acoustic phonetics(through air): how to transmit speech
- 3. Auditory phonetics(to ear):how to hear speech
- -upper vocal tract: Lip, teeth, alveolar ridge, hard palate, soft palate(velum), uvular, pharynx wall, larynx
- -lower vocal tract: lip, tongue tip, blade, front, center, back, root, epiglottis(음식이 기도로 가는것을 막음)
- -larynx
- 1. Voiced: vibration- 성대가 붙어있을 때
- 2. Voiceless:no vibration-성대가 떨어져 있을 때
- -velum lowered: nasal, breathing
- -constriction
- 1.Constriction location
- 1) Lips-bilabial, labiodental
- 2) tongue body- palatal, velar cf)모든 모음은 tongue body를 사용
- 3) tongue tip- (inter)dental, alveolar, retroflex, palato-alveolar
- 2.Constriction degree
- Stops>fricative>approximants>vowel
- -phonemes: individual sounds that form words



... HChight)

```
코딩=자크化 (ex. 콘어있는 프로그램들)
 인어/公
 아라리언어 [단어 : 정보 (단어는 정보를 답는 그릇)
는 운범
 컴퓨터인어 - 변수; 정보 ex) 옷자,운자...
          ① 변수에 정보를 asign
          ② 秋 (件)
         ③ 반빛 (A1)
★① 참수 : 십년 → 출덕
 x=y ~ y = 12 a x ign. ex) a=1 / Run (ご到: Shift + enter)
 된다. 마마나(a) (a: 구에 떨셔지 / Select 또 X =delete.
전 알다른 클릭되고 파란마토이면 (b: 아래에 "
 문자()편: () () 《()
· love = 2 b = love Print(b) = 2
     → run → 3
 a=1; b=1; C=3;
· type( 변午) — other type 인기 ex int , 175+, float, 5th (另外) (另外)
 · a=[1, 'love', [1, 'bye']]
 · a= {'a': 'apple', 'b': 'banna'} 玉利可: 설명.
            Le type: dict cionary)
```

```
A=1, b=1 c=a+b
A = [1,2]
B = [3,4]
C=a[0]+b[0]
-4(1+3)
C=a[1]+b[1]
-6
A=1.2 a=int(a) print(a) -1
A= '123' print(a[1]) -1. Q. ???
A= 123 print(a[1]) - error ← 이전 Index4, 중국내 / 『카메나 때
Index: 내부적인부분
Dict에있는 정보를 가져올때는 pair중의 앞부분을 index의 수단으로 쓴다. 그러면 뒷부분이 나옴.
Type(a[0])
S='abcdef'
N=[100,200,300]
Print s[0] 제일 첫 번재 꺼 .....
s[-1] 제일 마지막 꺼 .....
S[1:3] = 첫번째에서 세번째의 직전까지 / b,c
1: = 첫번째에서 끝까지
:3 = 첫번째에서 세번째 의 직전까지
Len[] = 길이
S.upper() - 대문자 됨
R index ??
Strip: 쓸데없는거 없애주는
Split: ' ' -스페이스를 사용해서 나눠라
                        → 2 (그녀-음사이/다음, 드년24PM )
a= '123' print(aci])
                              ( two young over Extract.
       )之 是图 tuple, [ ] 王弘图 155.
dk → {"a"; "apple" }
          Plint (a ["a"])
S= abedep"

Print(s(1:3), s(1:1, s(1:3), s(1:1))

acdet.
S. upper()

Pesult = S. Pind ( ) : 医同凹透射、图的外科学? ※ O부터씨와 The sult)
Liesuit = S. rindex (?)
S= S. strip() < Print(s)
tokens = S. SPlit(' ') = piny (tokens)

S = ()join (tokens)
          S = S, reflace ('this', 'that')
```

```
a = [1,2,3,4]
for i in a:
               # for in : 라는 문법은 in 뒤에 있는 것을 i에 할당하는 것
               # for과 if 다음에는 indent를 하는 것이 매우 중요하다.
    print(i)
1234
a=[1,2,3,4]
for i in range(4): #range는 index를 만들어주는 것 range(4): 0부터 4개 (0,1,2,3)
                  #range(len(a)) 라고 일반적으로 함.
    print(a[i])
                  # len(a): 그냥 몇갠지
1234
a=['red','green','blue','purple']
for s in a:
    print(s)
red green blue purple
a=['red','green','blue','purple']
for s in range(len(a)):
    print(a[s])
red green blue purple
a=['red','green','blue','purple']
for i,s in enumerate(a):
                                     #enumerate: 숫자를 부여
    print(l,s)
0 red 1 green 2 blue 3 purple
a=['red','green','blue','purple']
b=[0.2, 0.3, 0.1, 0.4]
for i, s in enumerate(a): #앞에있는게 번호, 뒤에있는게 element. enumerate 없으면 변수 2개 못씀
    print("{}:{}%". format(s, b[i]*100))
red: 20.0% green:30.0% blue:10.0% purple:40.0%
a=['red','green','blue','purple']
b=[0.2, 0.3, 0.1, 0.4]
for s,i in zip(a, b):
   print("{}:{}%". format(s, i*100))
red: 20.0% green:30.0% blue:10.0% purple:40.0%
```

```
a=0
if a==0:
    print("yay!")
yay!
if a!=0:
    print("yay!")
else:
    print("no")
no
#시험문제
for i in range(1,3):
    for j in range(3,5):
        print(i*j)
3468
for i in range(1,3):
    print(i)
    for j in range(3,5):
        print(i*j)
1 3 4 2 6 8
순서: 1: 1을프린트, 1을 3,4와 곱함
for i in range(1,3):
    for j in range(3,5):
        if j > =4:
            print(i*j)
4 8
for i in range(1,3):
    if i >= 3:
       for j in range(3,5):
            print(i*j)
아무것도안나옴
```