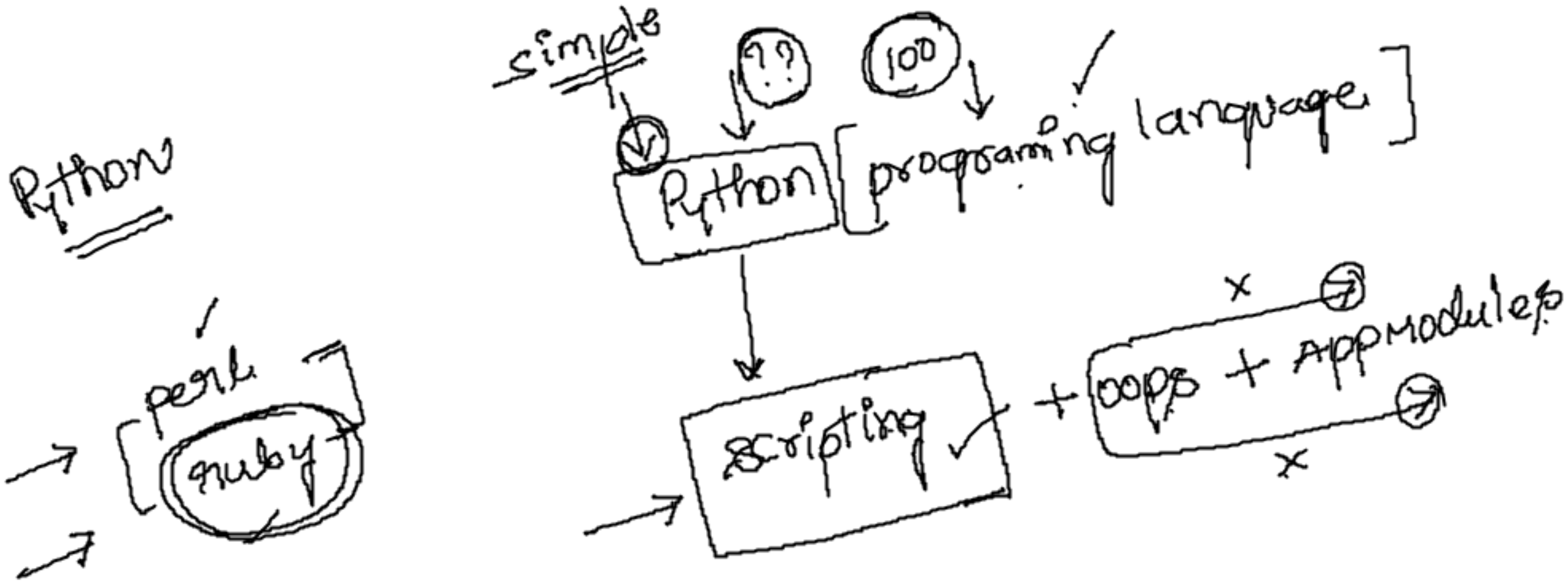
Lny



Not Mandatory ⟹ interviews

Mandatory ⟹ for carrier

	shell	Python
startline	#!/bin/bash	#!/usr/bin/python
comment	# commentline1	#commentline1 """ comment1 comment2 coment2 """

variable	var1 = 10
	str1 = "something"
		var1 = 10
		str1 = "something"

Shell

Python

Access → ⊝

echo $var1
⇓
o/p var1 value

print var1
⇓
o/p: of var1 value

Python → 2.x → print var1

Python → 3.x → print(var1)

a=10 ;b=20

<u>o/p</u>

print a,b ⇒ 10 20

<u>desired</u> o/p:- ⇒ " my value of a is", $\underset{\underline{a}}{\underline{10}}$ ", and value of b is", $\underset{b}{\underline{20}}$

data types

[0-9] (n)

~~3232~~
- 32xxx to +32xxx

↓

integer
char
string
double
float

Python
↓
tuples
list
dictionary

char → a ✓ b ✓ c ✓ d ✓ e ✓ f ✓

→ market → ₹ pay Rs 1200 → integer

→ petrol Bunk → ₹ liter Rs 73.29 71.10 91.52 → float string → Any English word

→ * Group of charecters *

var₁ = "Hi team welcome to dvs"

c l a ss

word

statement

sentence

list :-

```
        0   1   2   3   4
lis1 = [10, 20, 30, 40, 50]
```

print lis1 ⇒ O/P 20

⇒ $\boxed{lis1 = 20}$ ⇒

O/P 30

Index value →	0	1	2	3	4
lis1	10	20	30	40	50

O/P

lis1[2] ⇒ 30

lis1[3] ⇒ 40

lis1[4] ⇒ 50

lis$_1$ =

0	1	2	3	4
10	20	30	40	50
-5	-4	-3	-2	-1

O/P

lis$_1$[3] (or) lis$_1$[-2] ⇒ 40

lis$_1$[4] (or) lis$_1$[-1] ⇒ 50

tuple

$tup_1 = (10, 20, 30, 40, 50)$

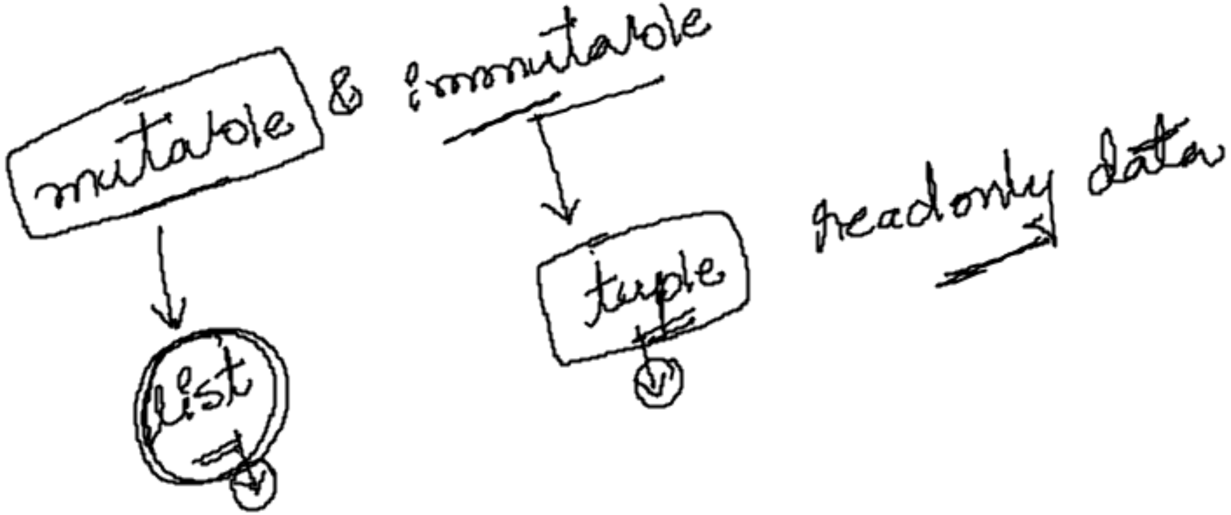
tuple ≠ = list

0	1	2	3	4
10	20	30	40	50
-5	-4	-3	-2	-1

$tup_1[2]$ (or) $tup_1[-3]$

o/p

30



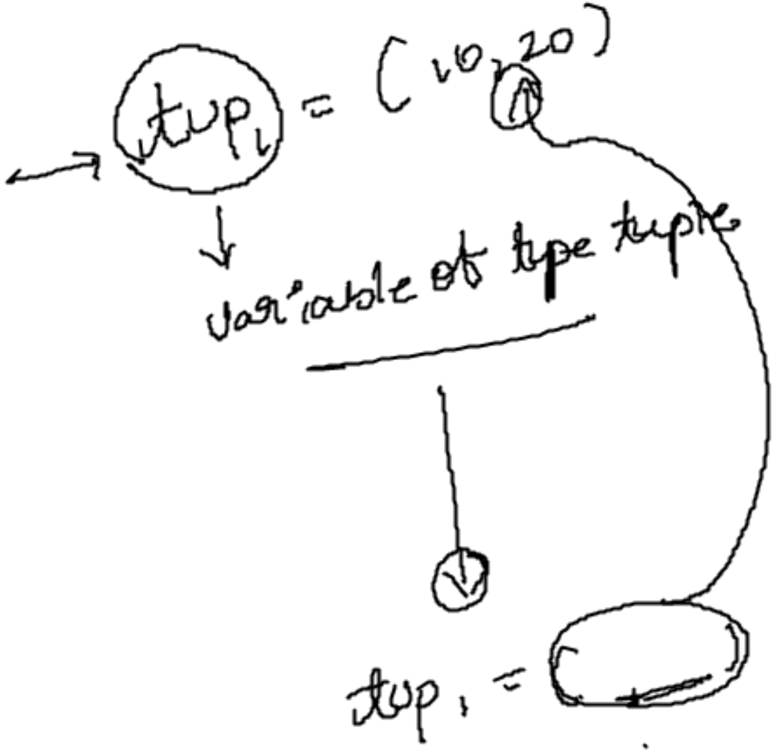
mutable & immutable

list

tuple

readonly data

dictionary



dictionary ⇒ [key & value]

unique

⇓

⇒

```
dict1 = { "key1" : value1,
          "key2" : value2,
          "key3" : value3
        }
```

O/P

```
dict1["key2"] ⇒ value2
```

⇒

```
dict1["key3"] ⇒ value3
```

shell ✓

```
var1 = 0
while (( var1 <= 10 ))
do
echo $var1
(( var1 = var1 +1 ))
done
```

indentation

Python

2/4/6/8

Black of code

```
while cond1 :
    line1 ✓
    line2 ✓
    line3 ✓
line1
line2 ✓
line3
```

Conditionp

shell

```
if cond1
then
  line1
  line2
else
  line3
  line4
fi
```

Python

Simple

```
if cond1:
    line1
    line2
```

indentation 2|4|6|8

```
if cond1:
2   line1
2   line2
else:
    line3
    line4
```

(If-else)

Shell

```
if  cond1
then
        line1
elif cond2
 then
       line2
  else
        line3
  fi
```

Python

```
if cond1:
     line1
 elif cond2:
       line2.
  else:
       line3
```

operators

Relational → >, <, <=, >=, !=

Boolean → true, false

Arthimetic → +, /, -, *, %

Conditional → and, or, not ⊙

Shell → && || !

Reading a value

Python 3
⇓
(input)

Integer values

`var`$_1$ = input(" text") ⊙

string values

`str`$_1$ = raw_input(" text") ⊙

① → score of a student

```
if score ≤100 and score ≥ 80:
        print "Grade A"
elif score ≤ 79 and score ≥ 60:
        print "Grade B"
elif score ≤ 59 and score ≥ 35:
        print "Just passed"
else:
        print "failed"
```

loops while, for

{1..1000} (shell)

No's 1to 1000

range(10) → [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

range(5) = [0, 1, 2, 3, 4]

range(1,5) = [1, 2, 3, 4]

range(1,6] = [1, 2, 3, 4, 5]

✓

{1..20}

✓

range(5) = [0, 1, 2, 3, 4]

range(1, 5) = [1, 2, 3, 4]

⑪

rang(1, 10, 2) = [1, 3, 5, 7, 9]

② numbers

range(0, 11, [illegible])

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

⓪

[0, 2, 4, 6, 8, 10] ~~⑫~~

(0, 11, 2)