Introduction to Python

1. Review
2. Why Python
3. Basic Concepts
4. Project

Introduction to python

1. **Review**
2. Why Python
3. Basic Concepts
4. Project

Introduction to python

1. Review

1- Rule-base → I give you the exact Rules

2- Machine Learning → Many examples
Hints (what to look)

3- Deep Learning → Many Many examples!
No Hints!

4- Reinforcement Learning → Many Many examples!
rewarded by doing good!
penalized by doing bad!

1. Review

1- Rule-base

I give you the exact Rules

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Introduction to python

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Introduction to python

1. Review
2. **Why Python**
3. Basic Concepts
4. Project

Introduction to python

2. Why Python

2. Why Python

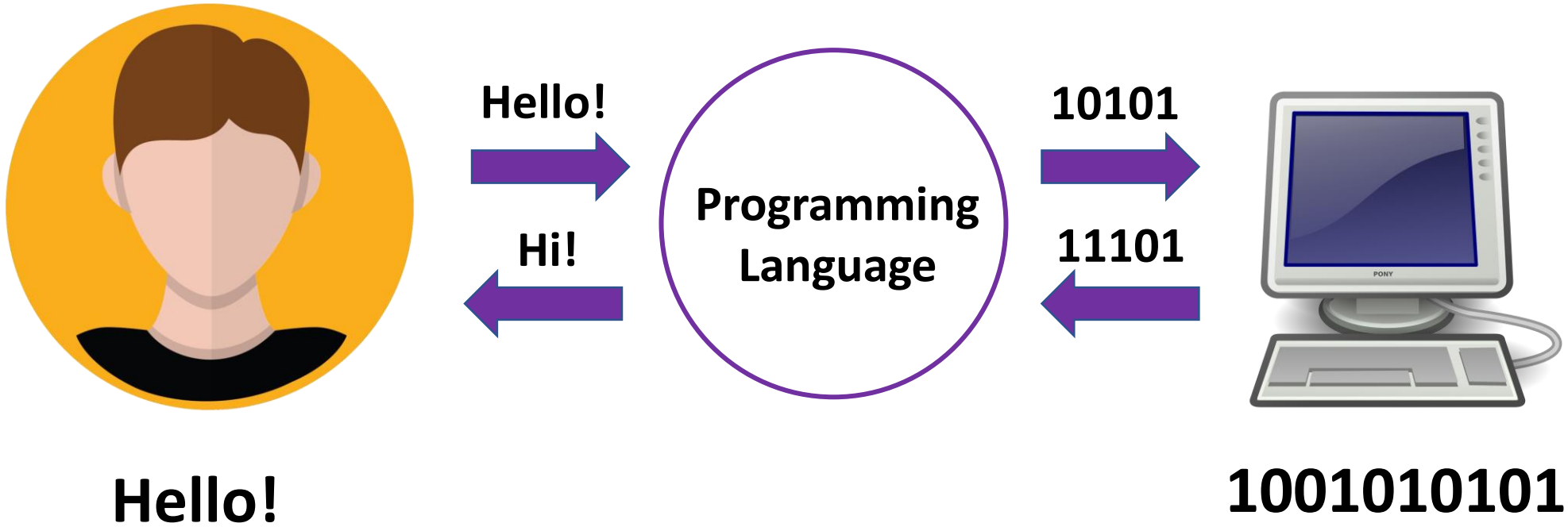
2. Why Python

2. Why Python

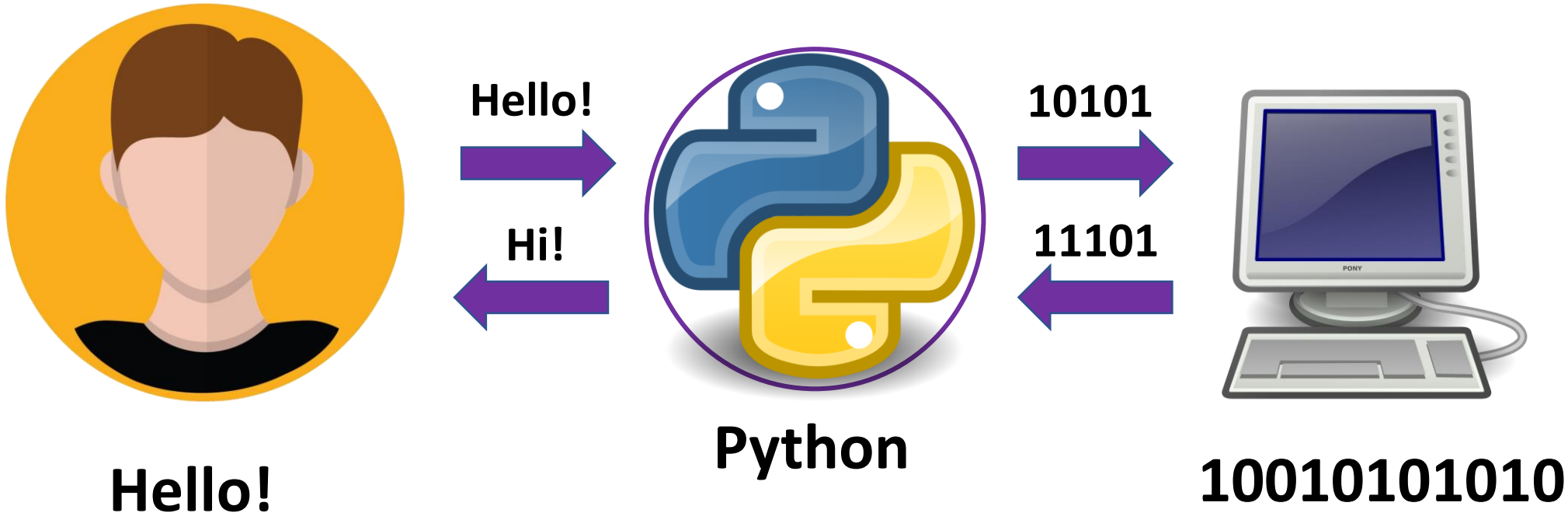
Hello!

10010101010

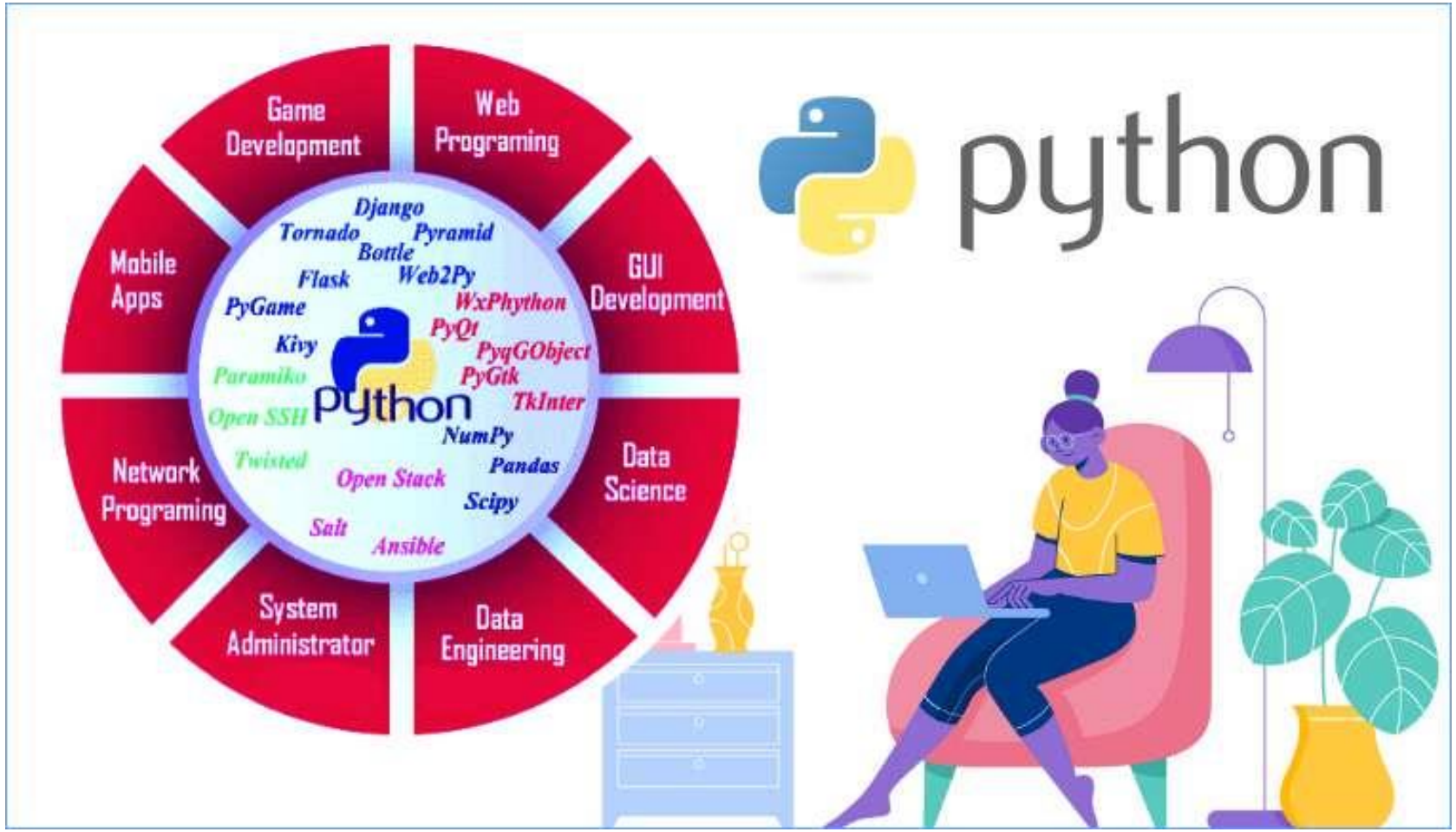
2. Why Python



2. Why Python



2. Why Python



2. Why Python

1. Review
2. **Why Python**
3. Basic Concepts
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Introduction to python

1. Review
2. Why Python
3. Basic Concepts
4. Project

Introduction to python

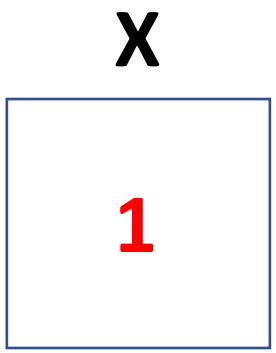
1. Review
2. Why Python
3. **Basic Concepts**
4. Project

Introduction to python

3. Basic Concepts

Variable

X = 1

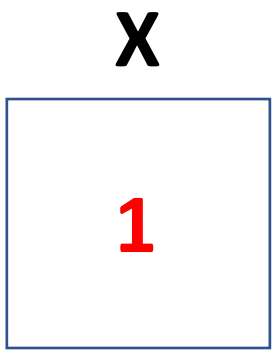


3. Basic Concepts

Variable

X = 1

X = 1 + 3



3. Basic Concepts

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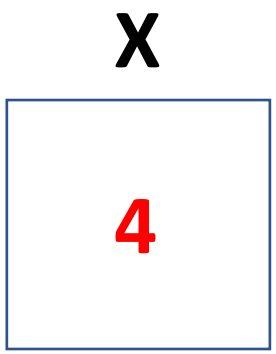


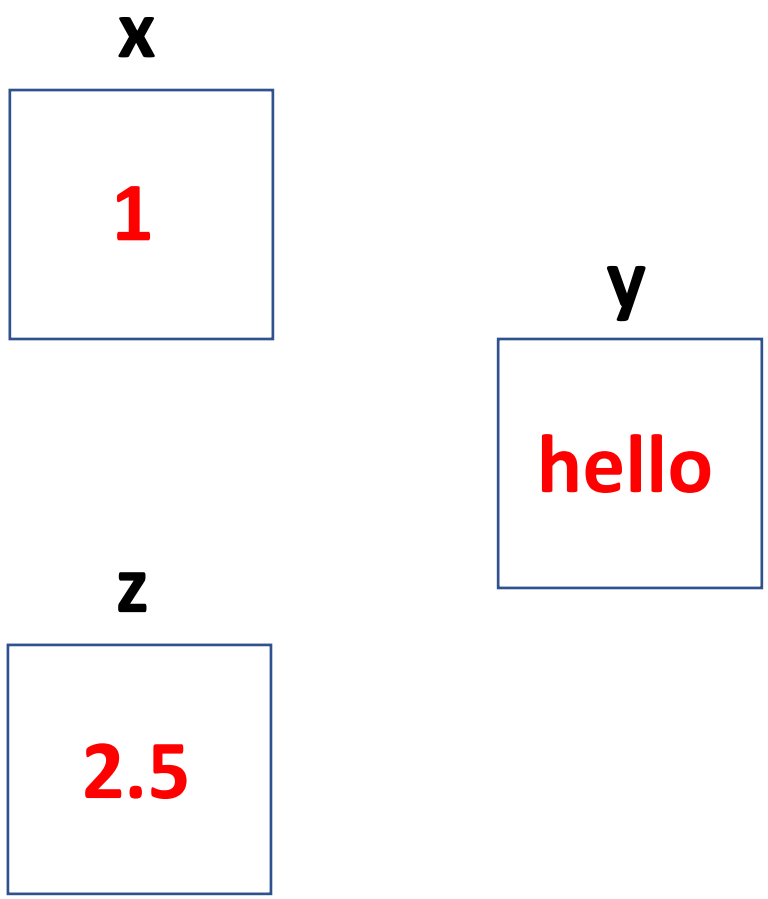
3. Basic Concepts

Variable

x = 1

y = “hello”

z = 2.5



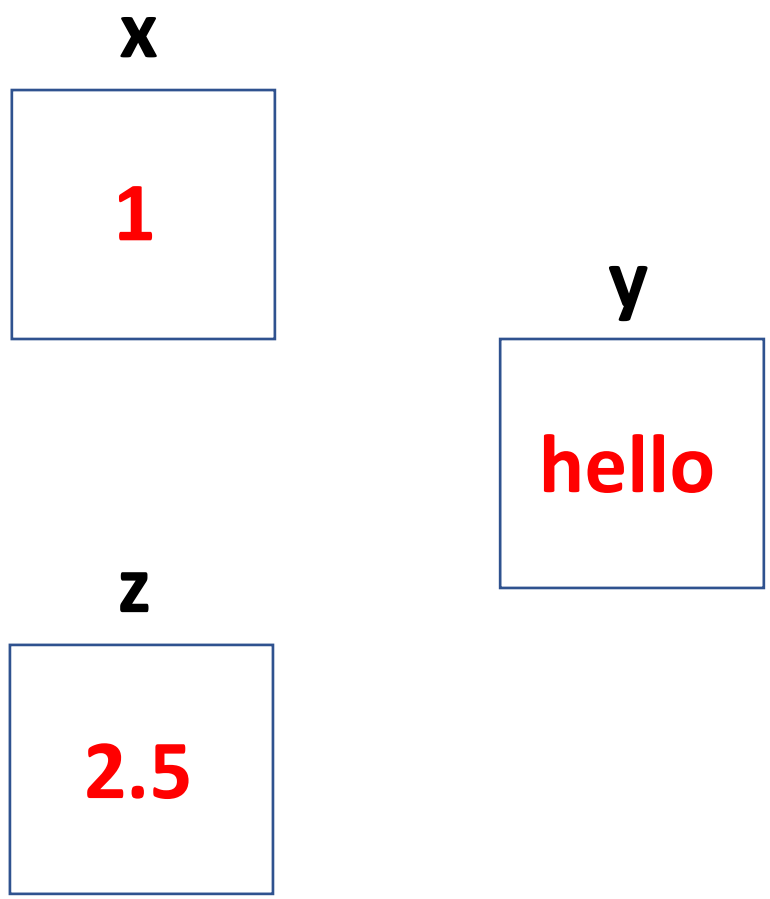
3. Basic Concepts

Variable

x = 1 Integer(int)

y = “hello” String(str)

z = 2.5 float



3. Basic Concepts

If / Else **True or False**

```
X = 4

If X is 4:
    print(x)

else:
    print("No")
```

If True

If False

X

4

Result:

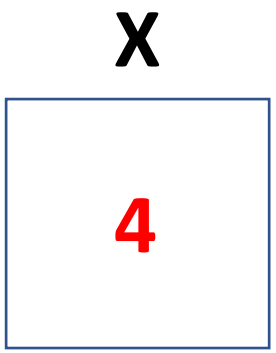
4

3. Basic Concepts

If / Else

```
X = 4
Y = 1
X = Y + 1
If X is 4:
    print("X is 4")

else:
    print(x)
```



3. Basic Concepts

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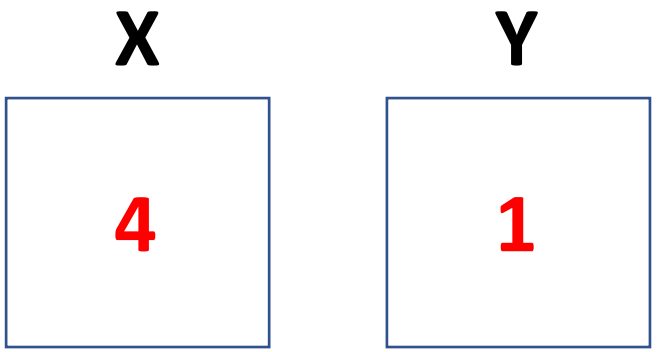

3. Basic Concepts

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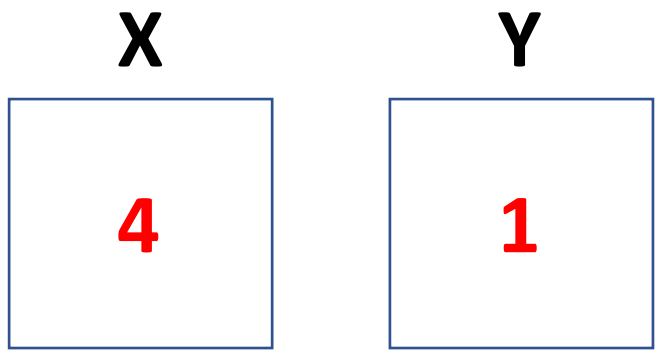

3. Basic Concepts

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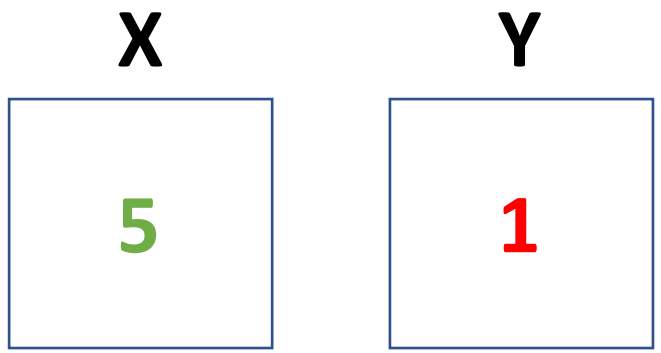

3. Basic Concepts

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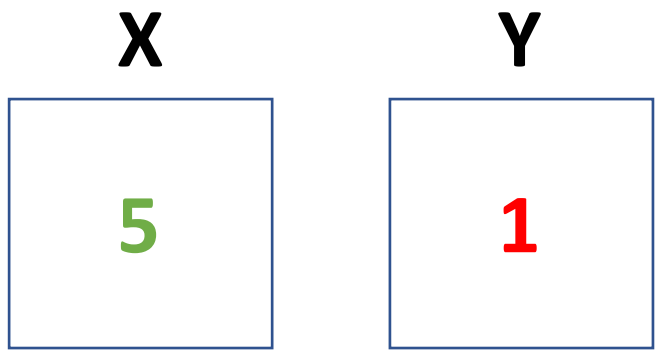

True or False

3. Basic Concepts

If / Else

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X = 4
Y = 1
X = Y + 1
If X is 4:
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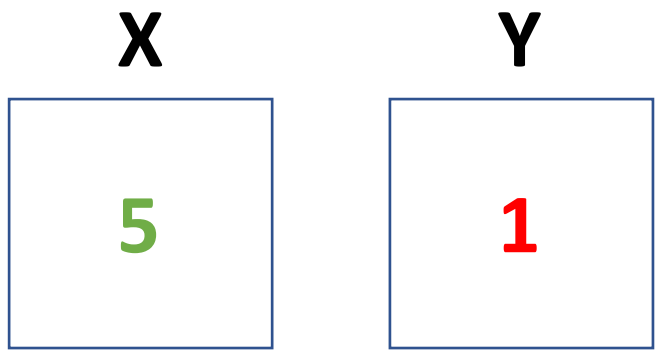
else:
    print(x)
```

If True

If False



True or False

3. Basic Concepts

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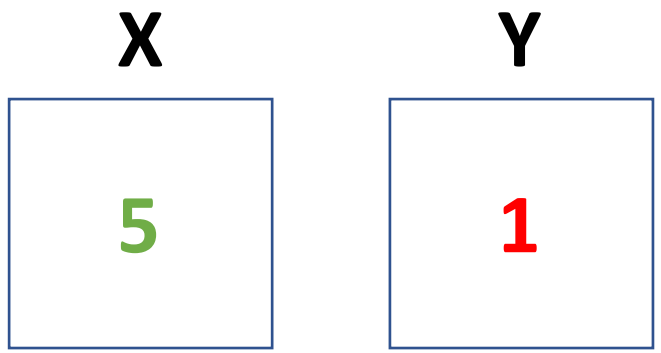
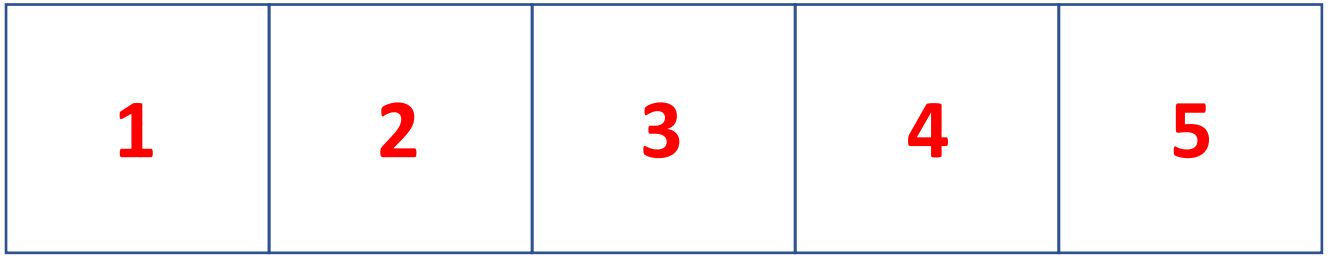


Result :
5

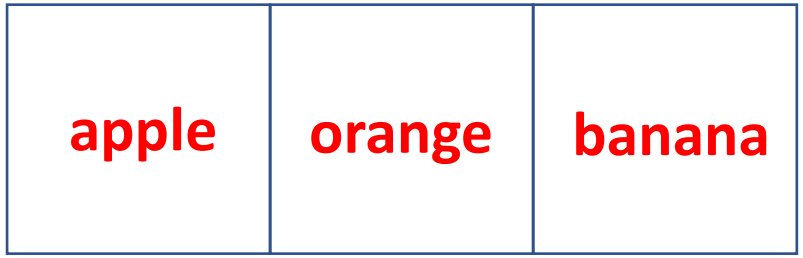
3. Basic Concepts

List

x = [1, 2, 3, 4, 5]



x = [“apple”, “orange”, “banana”]



3. Basic Concepts

Iterate through a list:

1	2	3	4	5

```
list = [1, 2, 3, 4, 5]
for number in list:
    print(number)
```

Result:

3. Basic Concepts

Iterate through a list:

```
list = [1, 2, 3, 4, 5]
for number in list:
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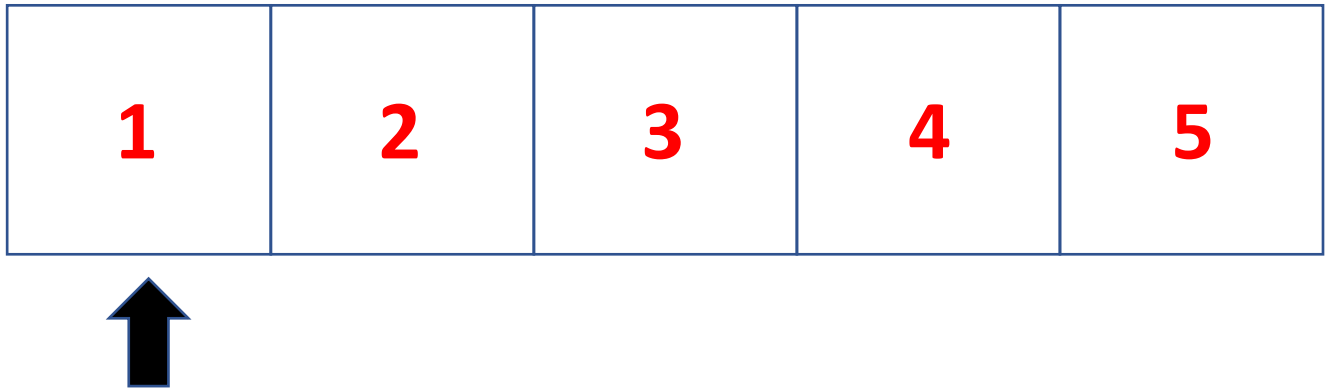
```



number

Result:

3. Basic Concepts

Iterate through a list:

```
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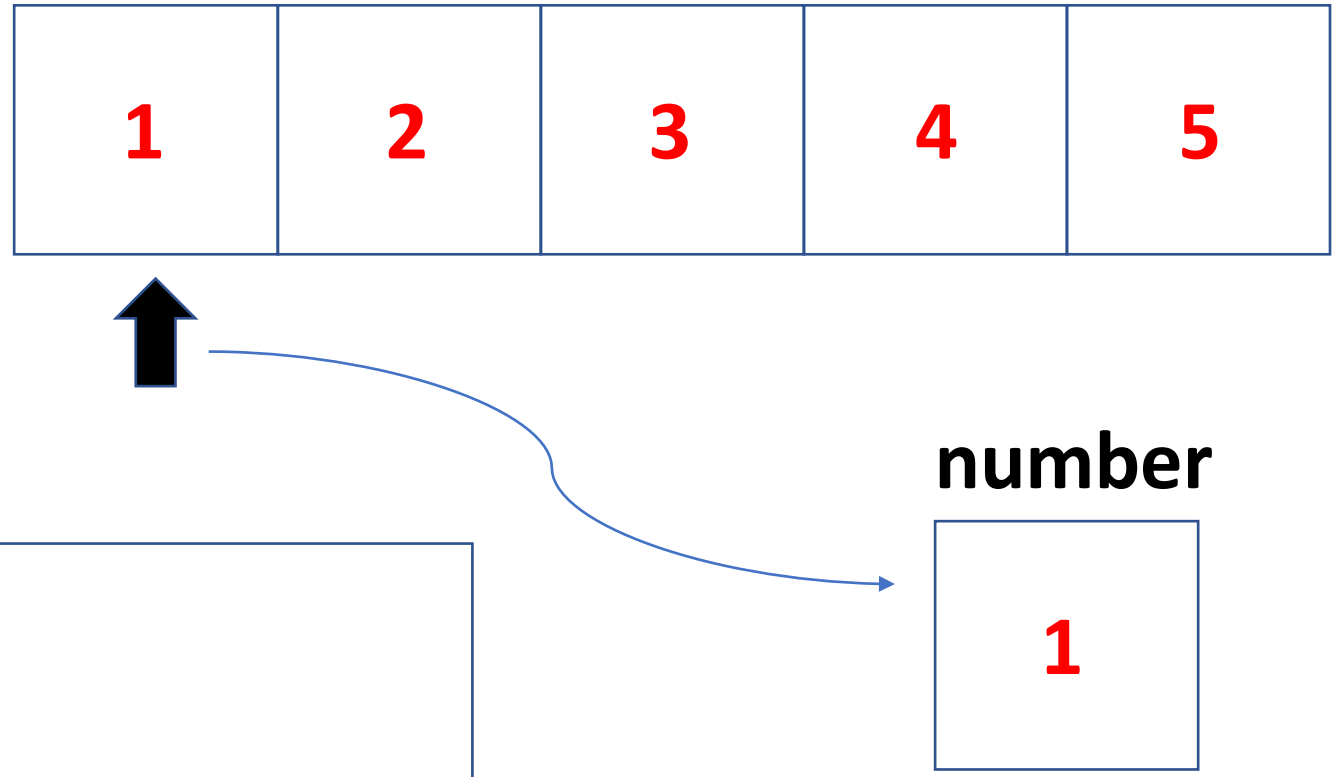
```



Result:

3. Basic Concepts

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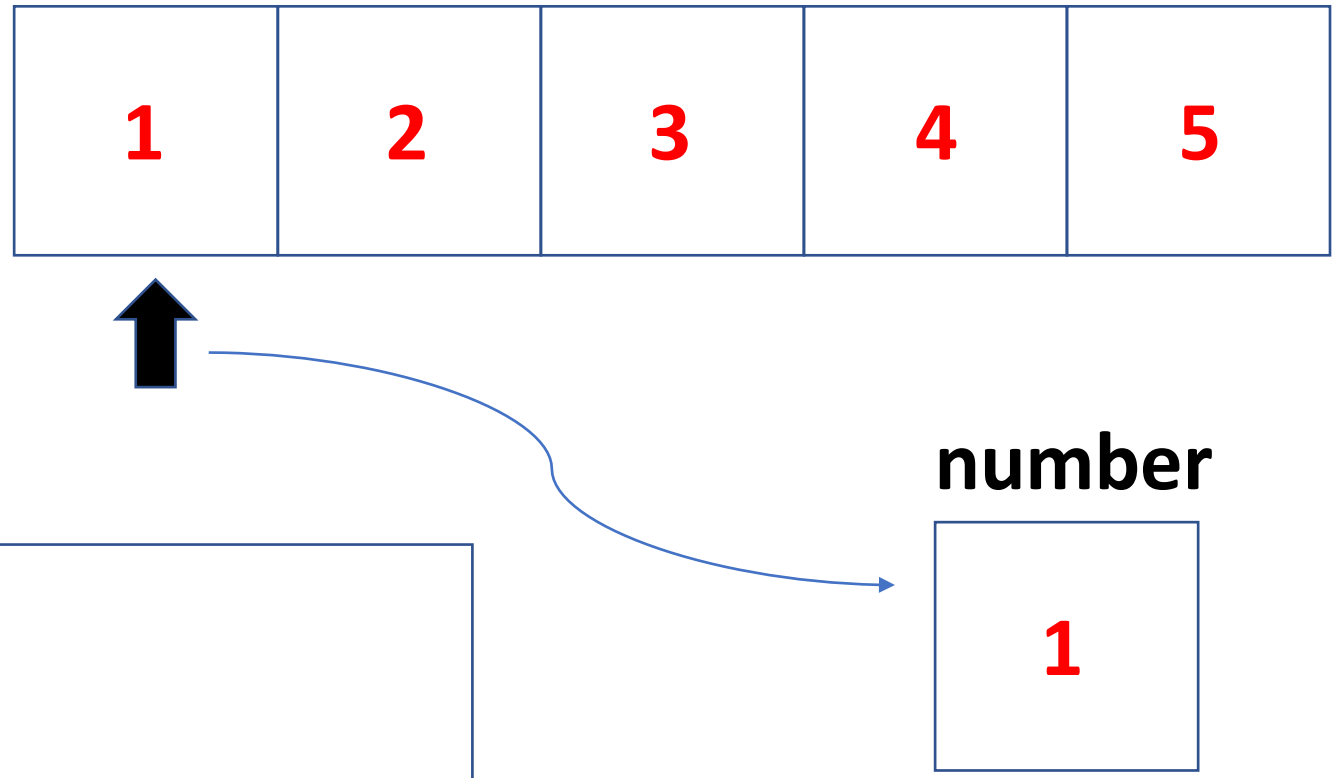

Result:

```
1
```

3. Basic Concepts

Iterate through a list:

```
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for number in list:
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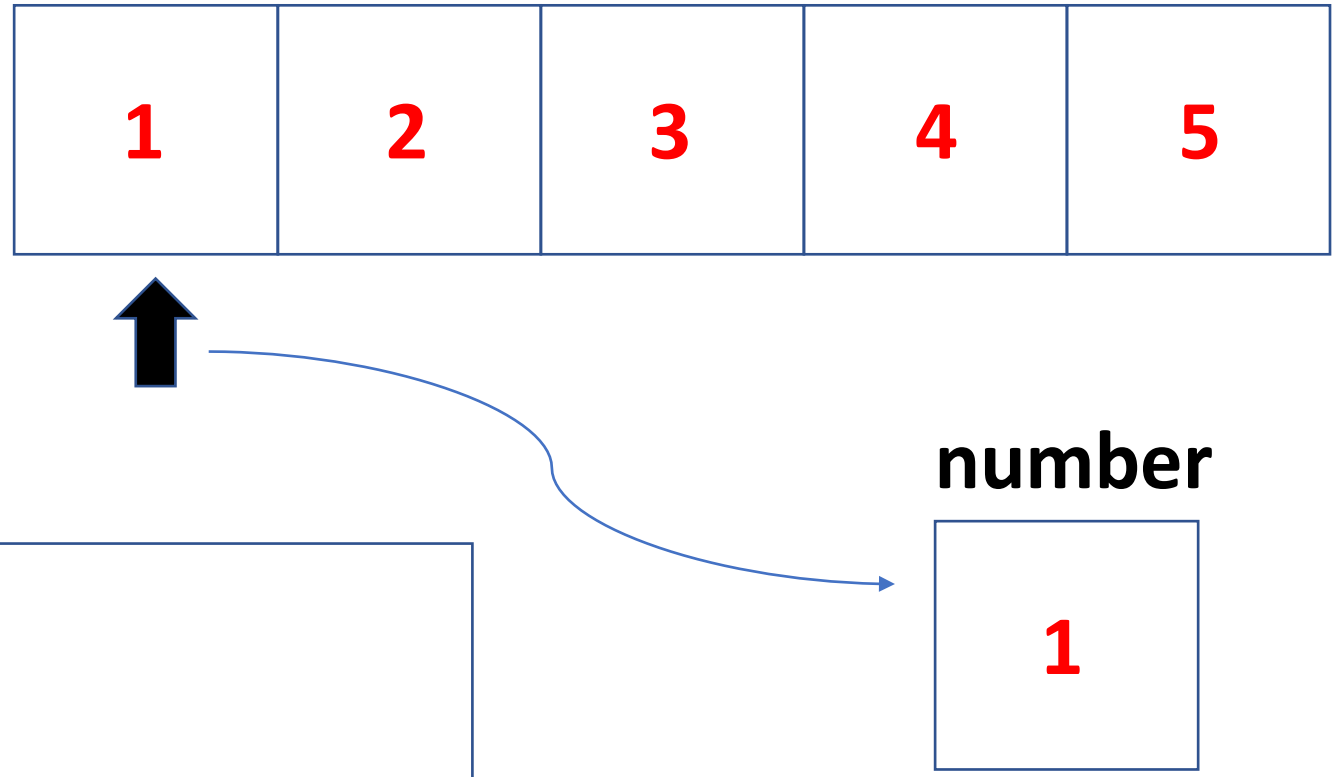
```



Result:

```
1
```

3. Basic Concepts

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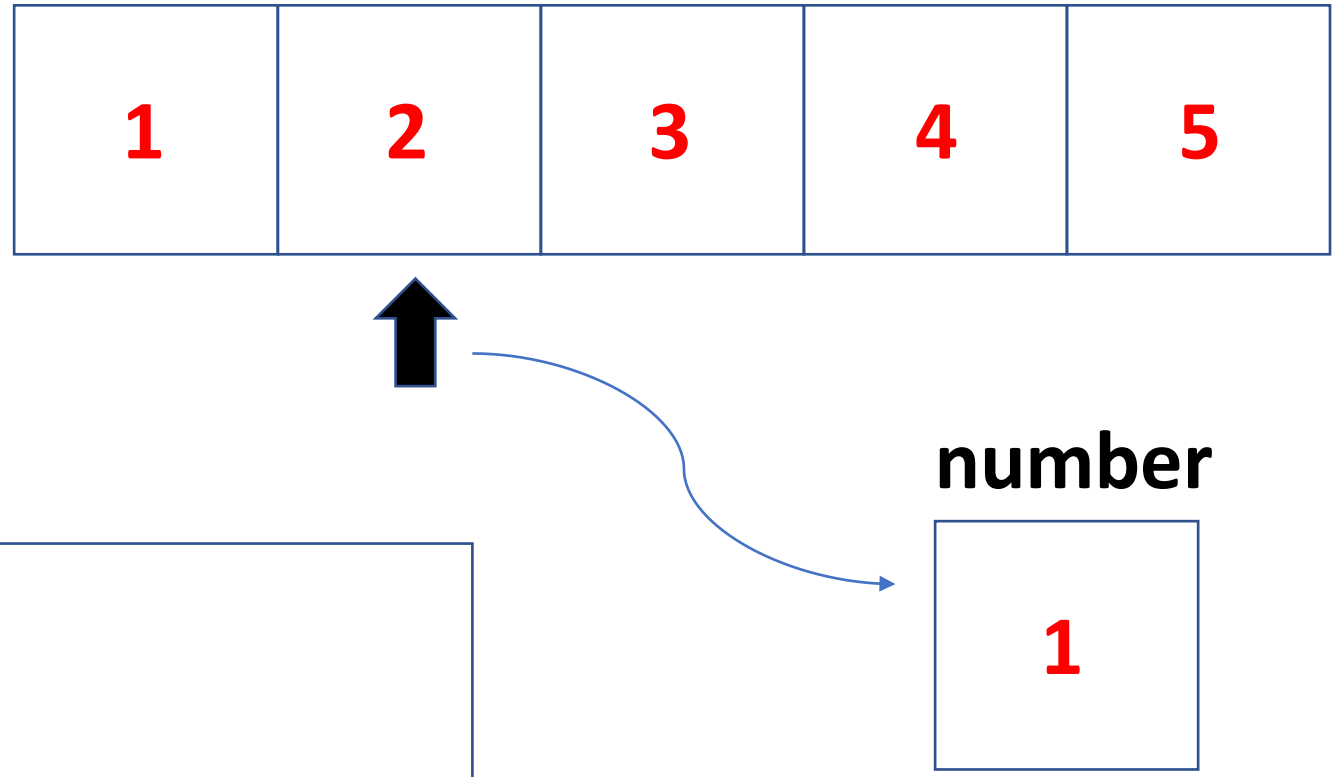

Result:

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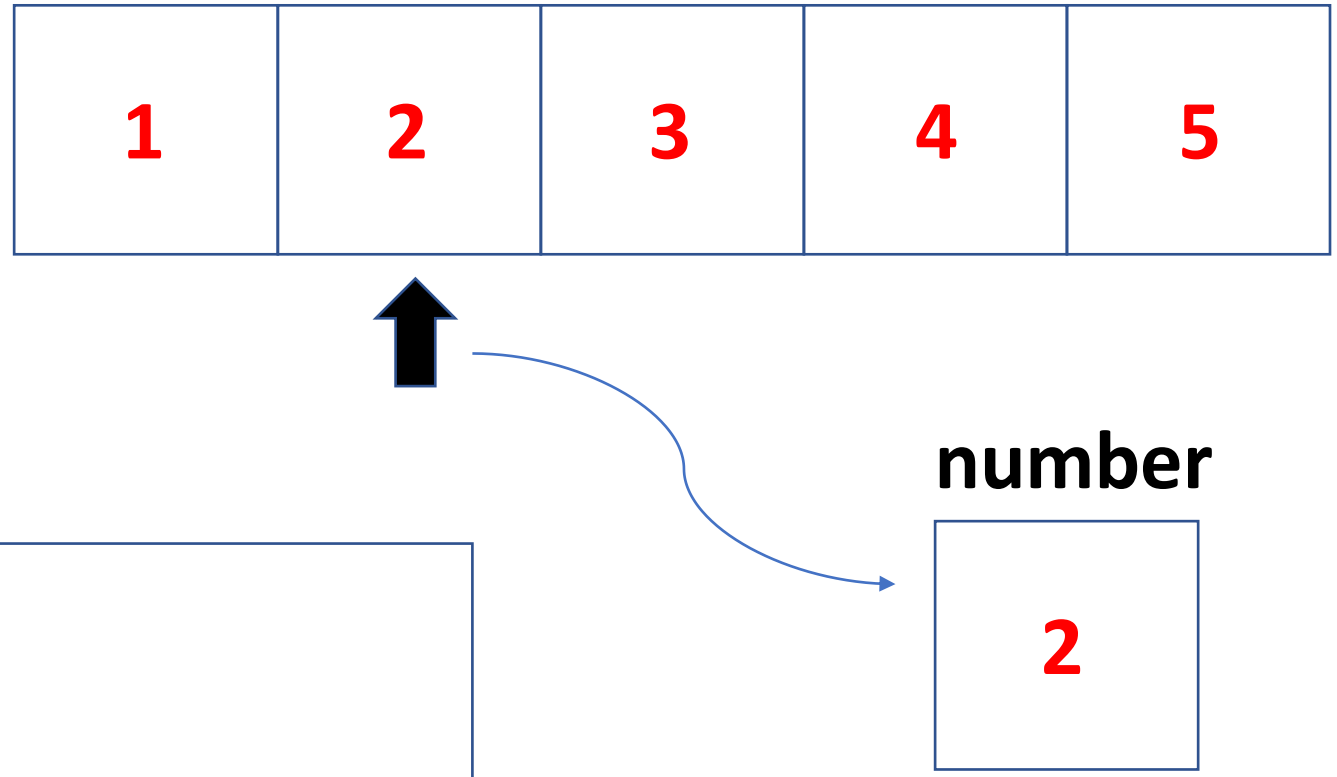

Result:

1

3. Basic Concepts

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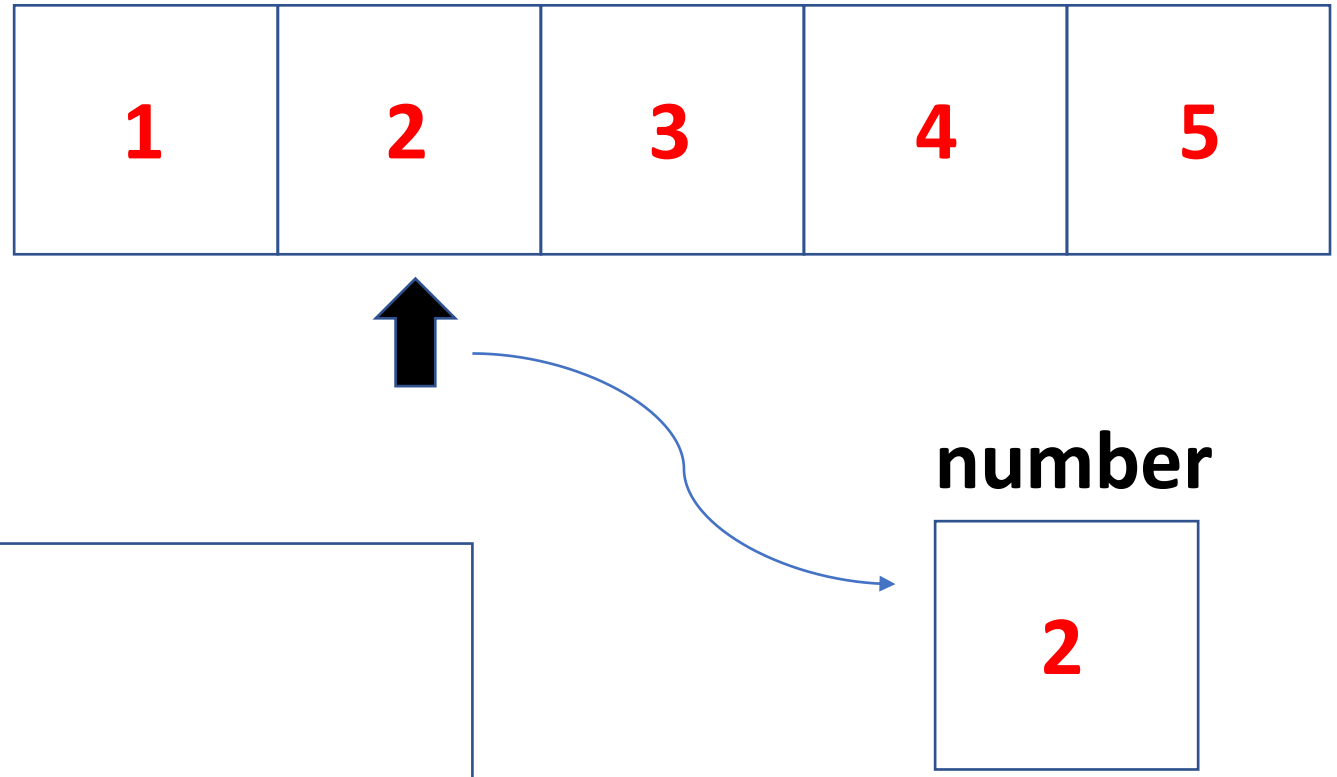


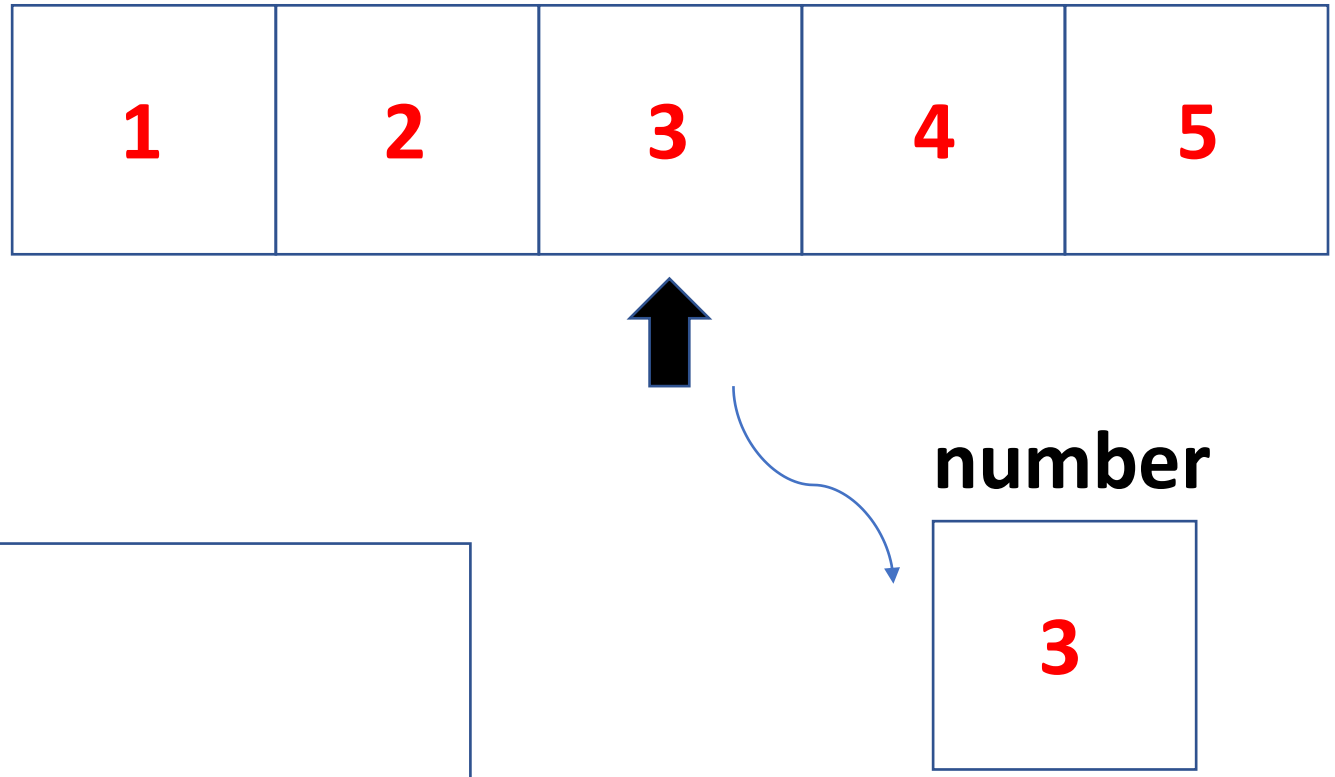
Result:

1
2

3. Basic Concepts

Iterate through a list:

```
list = [1, 2, 3, 4, 5]
for number in list:
    print(number)
```



Result:

1
2

3. Basic Concepts

Iterate through a list:

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for number in list:
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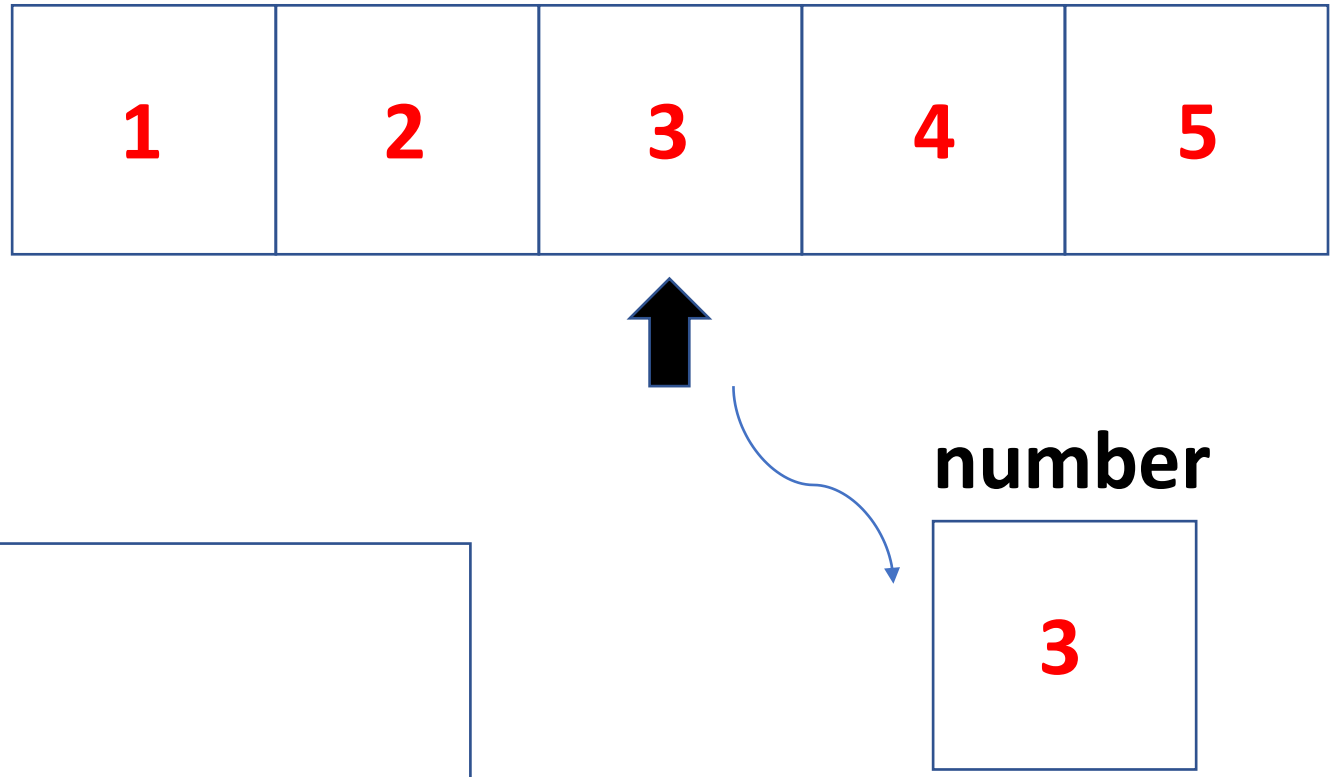


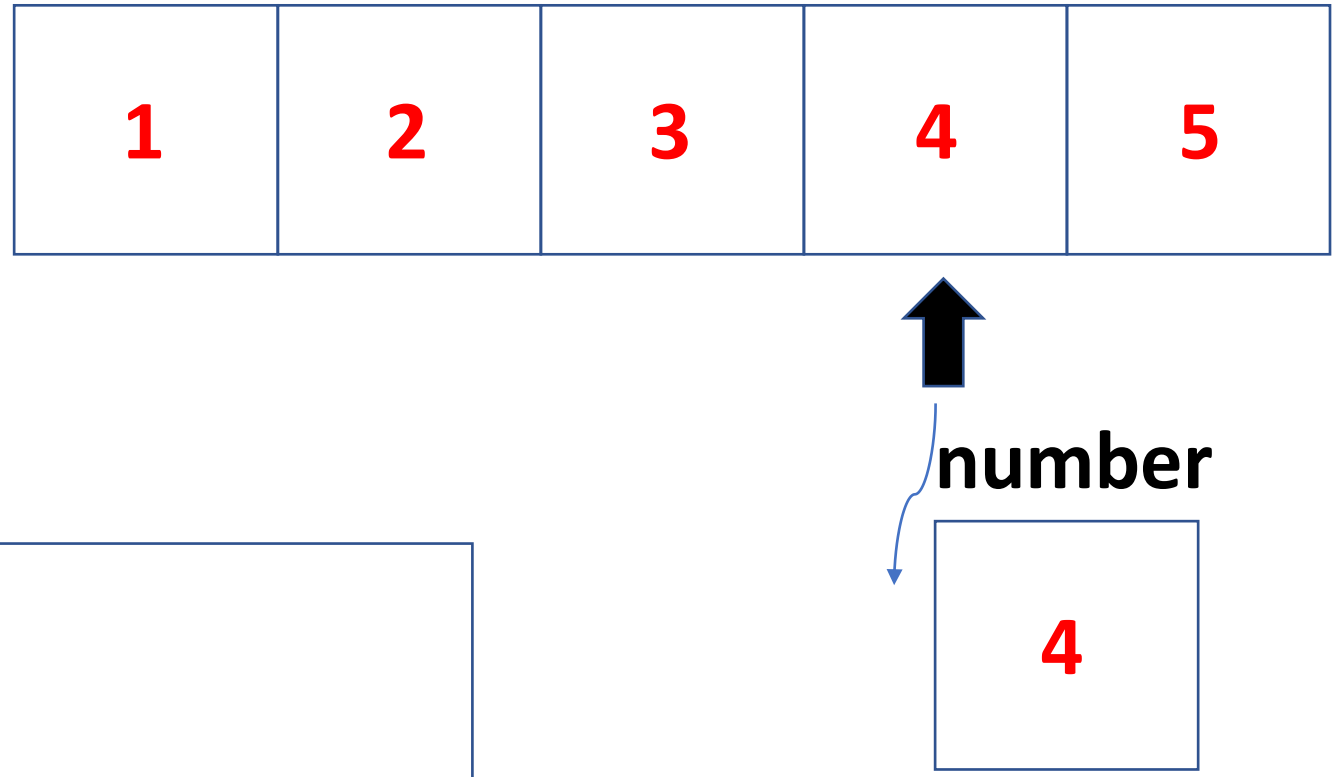
Result:

1
2
3

3. Basic Concepts

Iterate through a list:

```
list = [1, 2, 3, 4, 5]
for number in list:
    print(number)
```



Result:

1
2
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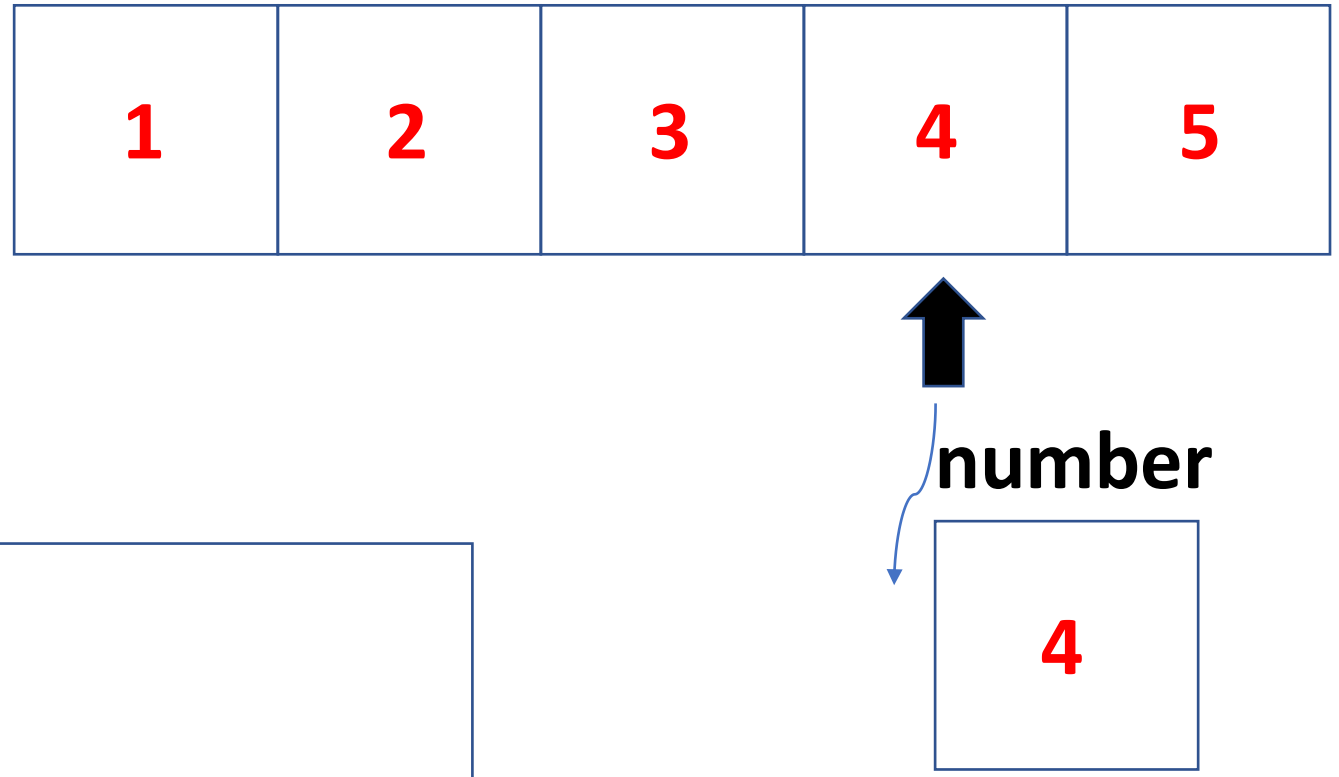


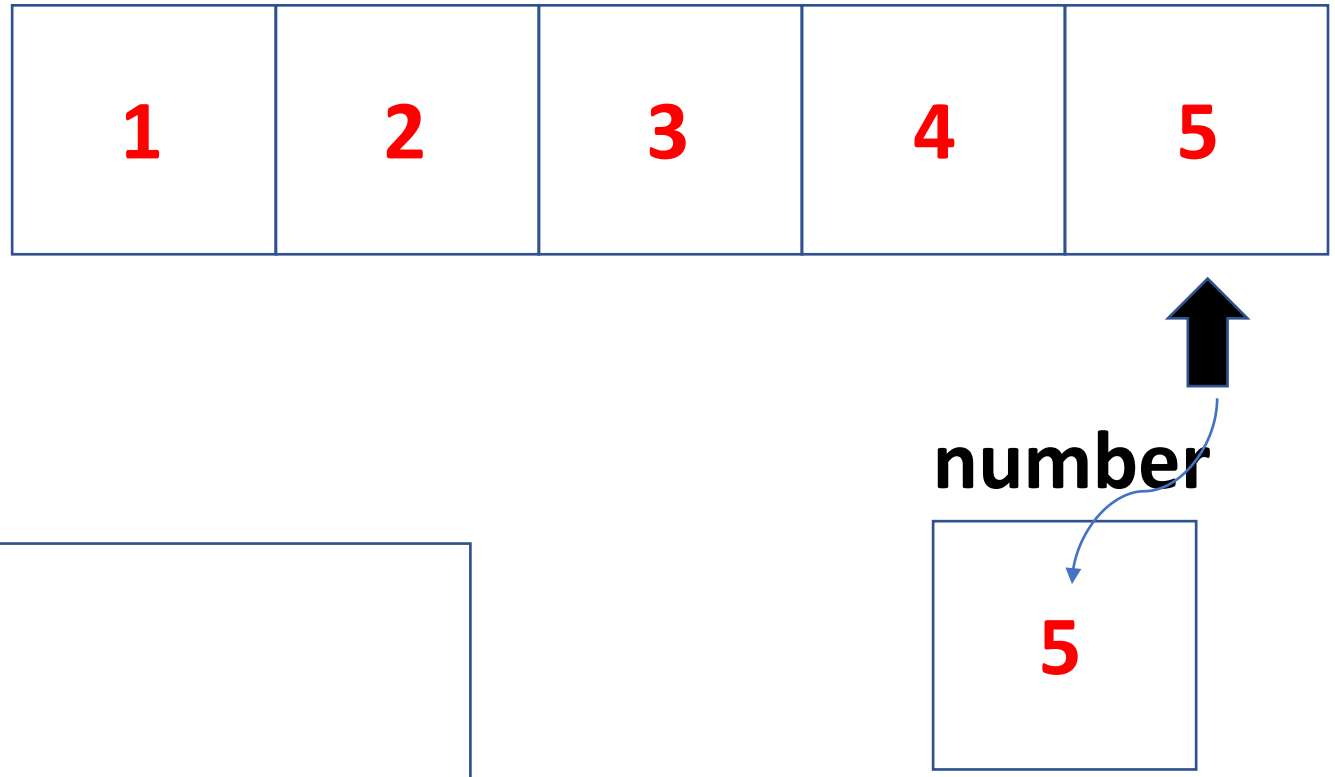
Result:

1
2
3
4

3. Basic Concepts

Iterate through a list:

```
list = [1, 2, 3, 4, 5]
for number in list:
    print(number)
```



Result:

1
2
3
4

3. Basic Concepts

Iterate through a list:

```
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for number in list:
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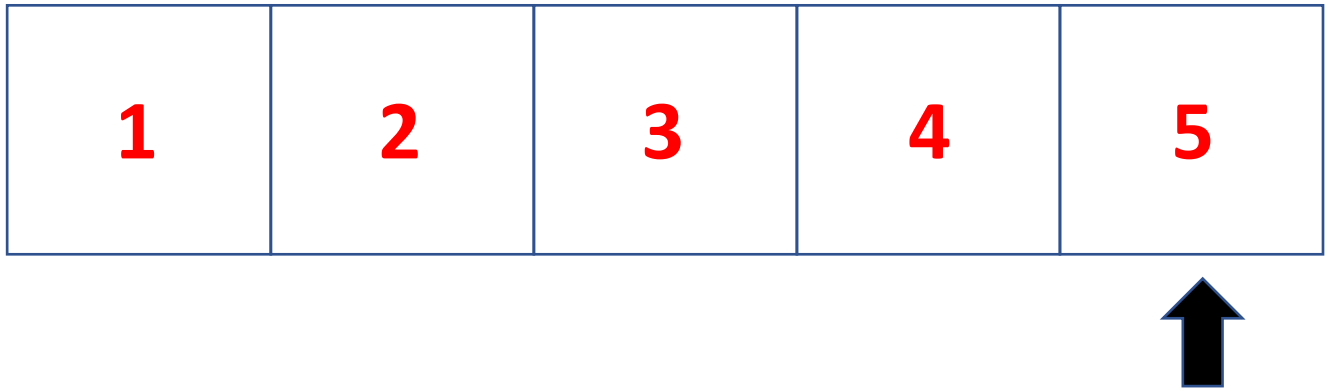
```



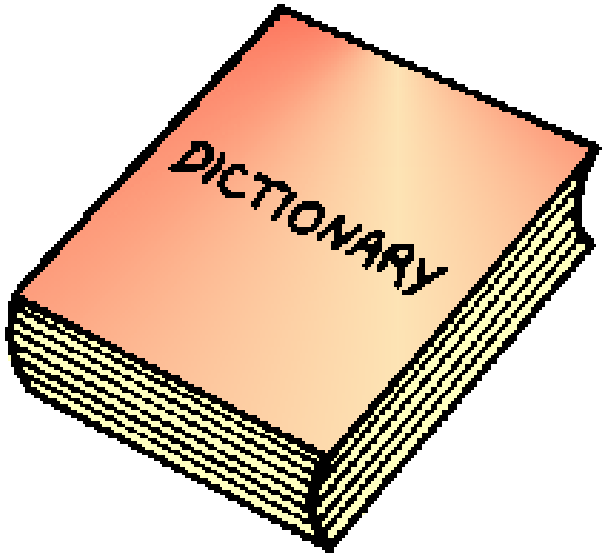
Result:

1
2
3
4
5

3. Basic Concepts

Dictionary:

Word = “python”

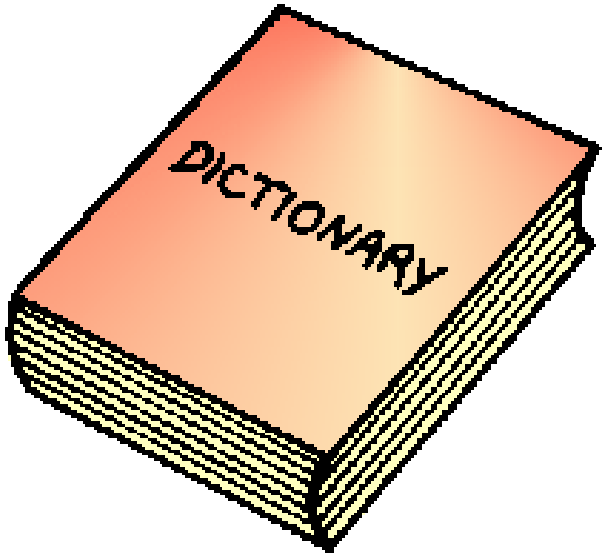


Meaning =
“it is a programming language”

3. Basic Concepts

Dictionary:

KEY = “python”



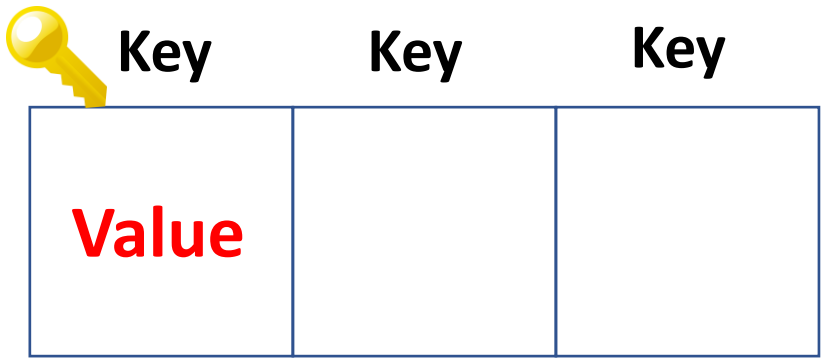
VALUE =

“it is a programming language”

3. Basic Concepts

Dictionary:

fruits = {“apple": 4, “orange": 5, “banana": 3}



3. Basic Concepts

Dictionary:

```
fruits = {“apple": 4, “orange": 5, “banana": 3}

print(fruits[“apple”])
```

Result:

4

apple	orange	banana
4	5	3

3. Basic Concepts

Dictionary:

fruits = {“apple": 4, “orange": 5, “banana": 3}

fruits.items()

```
dict_items([('apple', 4), ('orange', 5), ('banana', 3)])
```

apple	orange	banana
4	5	3

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4. **Project**

Introduction to python

4. Project

Chatbot

(Online Shopping Assistant)

4. Project

1. Greeting with the user
2. Offer our products
3. Let the user choose
4. Take their information
5. Give them a receipt