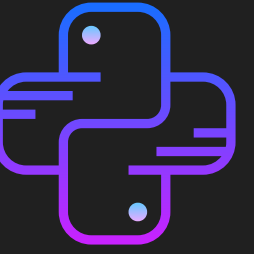


PYTHON TRAINING SESSION



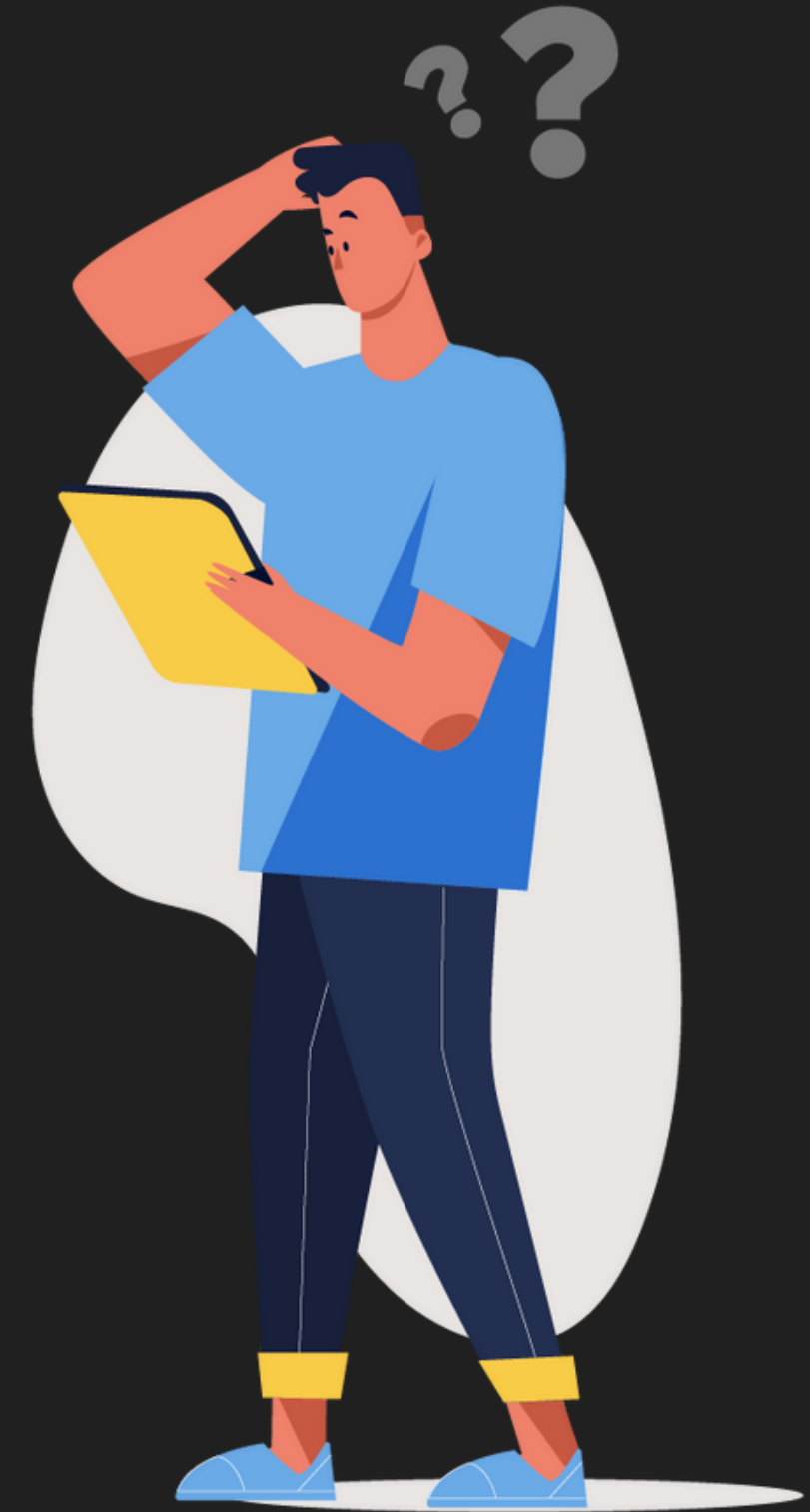
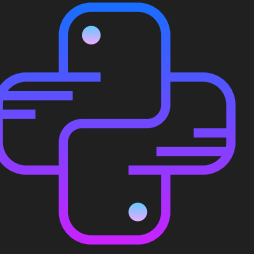


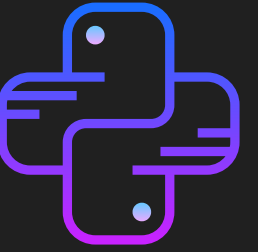
PRESENTED BY

Khairi Hammami



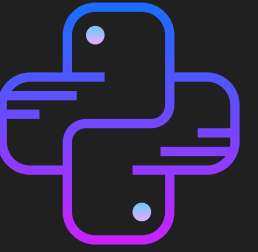
What is python?





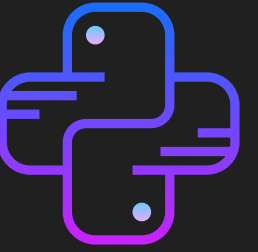
What is python?

Python is a
programming
language.



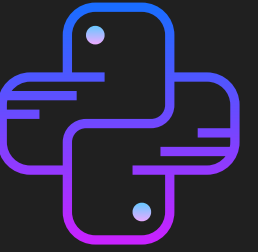
What is python?

Python is an *interpreted*
programming
language.



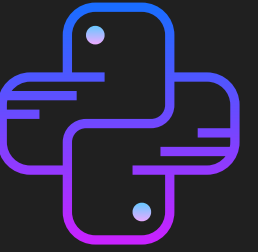
What is python?

Python is an *interpreted, high-level*
programming
language.



What is python?

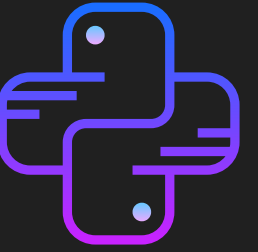
Python is an *interpreted, high-level, general-purpose* programming language.



What is python?

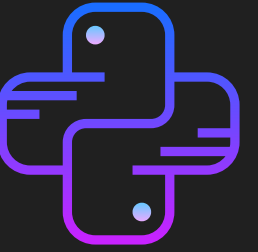
Python is also

.



What is python?

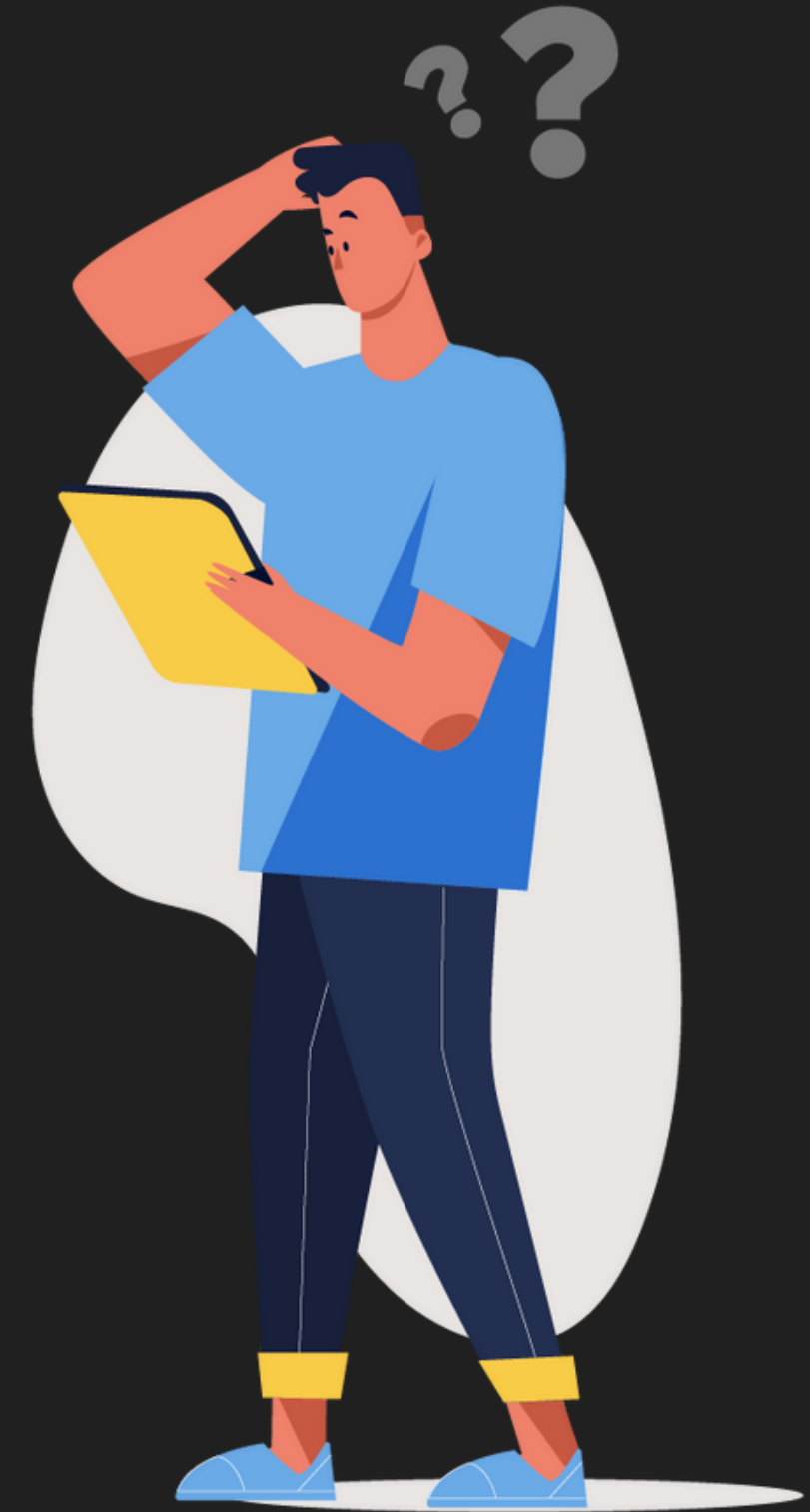
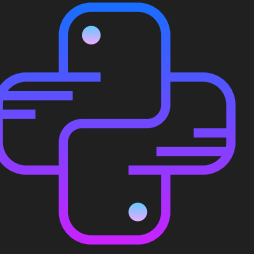
Python is also dynamically-typed

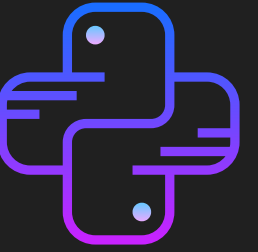


What is python?

Python is also dynamically-typed and
garbage-collected.

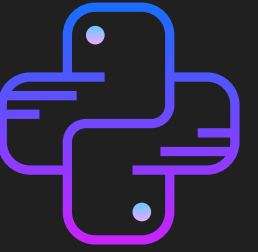
Why Python?





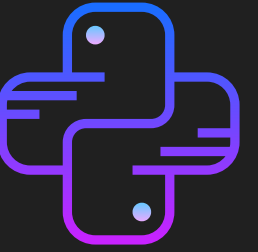
Why Python?

- Web development (server-side)



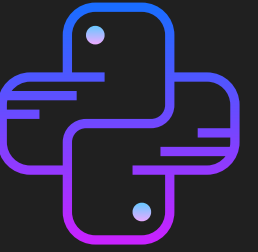
Why Python?

- Web development (server-side)
- Software development



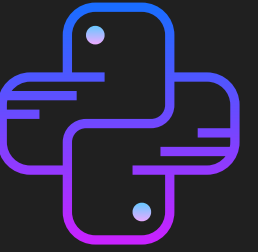
Why Python?

- Web development (server-side)
- Software development
- Data Science and Mathematics



Why Python?

- Web development (server-side)
- Software development
- Data Science and Mathematics
- Embedded Systems and Robotics

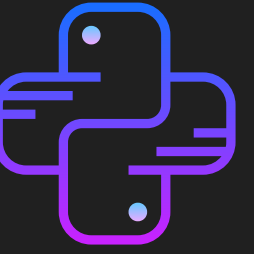


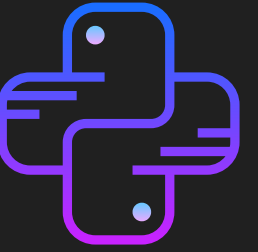
Why Python?

- Web development (server-side)
- Software development
- Data Science and Mathematics
- Embedded Systems and Robotics

and much more...!

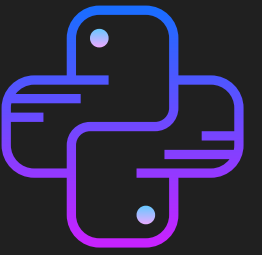
Why is Python popular?





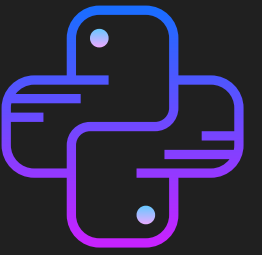
Why is Python popular?

- Easy to Learn and Use



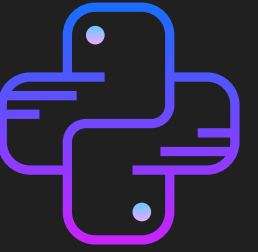
Why is Python popular?

- Easy to Learn and Use
- Supportive Python Community



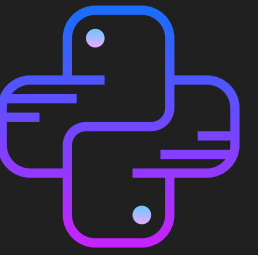
Why is Python popular?

- Easy to Learn and Use
- Supportive Python Community
- Hundreds of Python Libraries and Frameworks



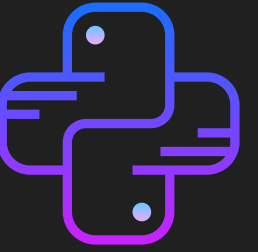
Why is Python popular?

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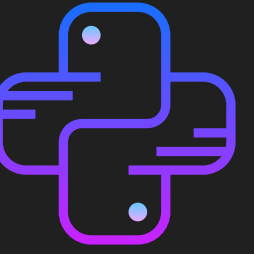


**That should be enough,
Let's get coding!**

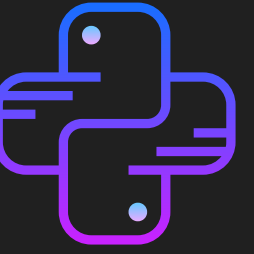




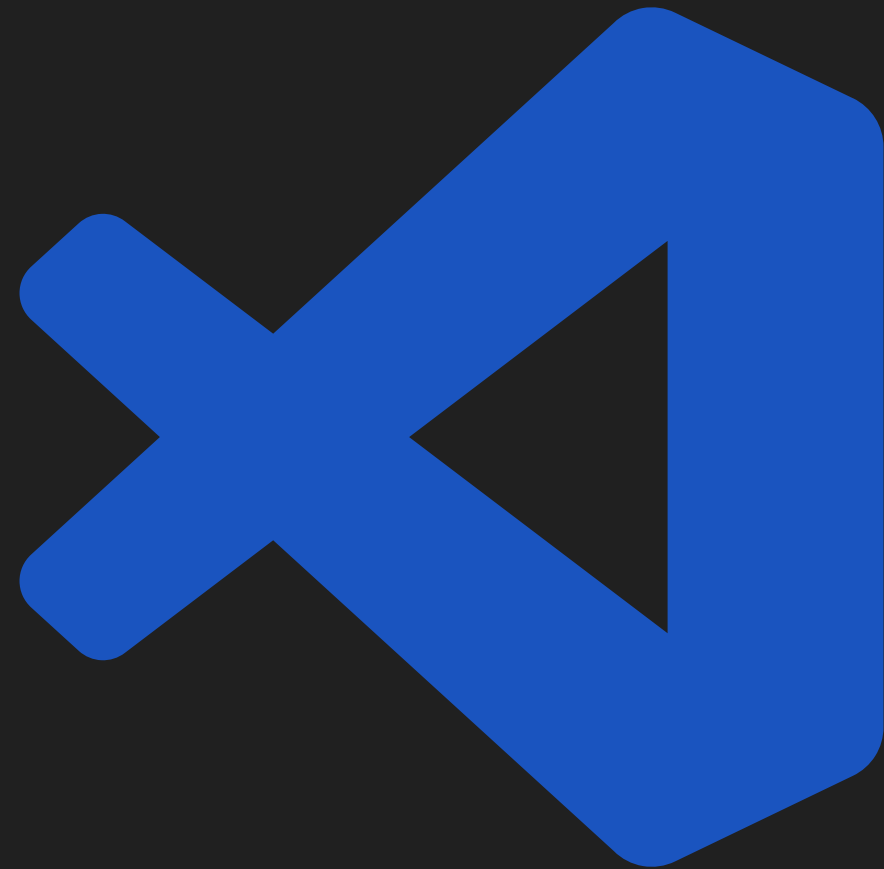
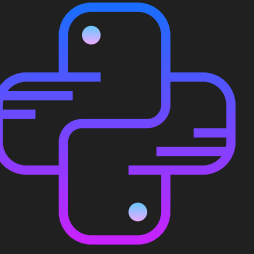
But first, we have to
get familiar with our
environment.



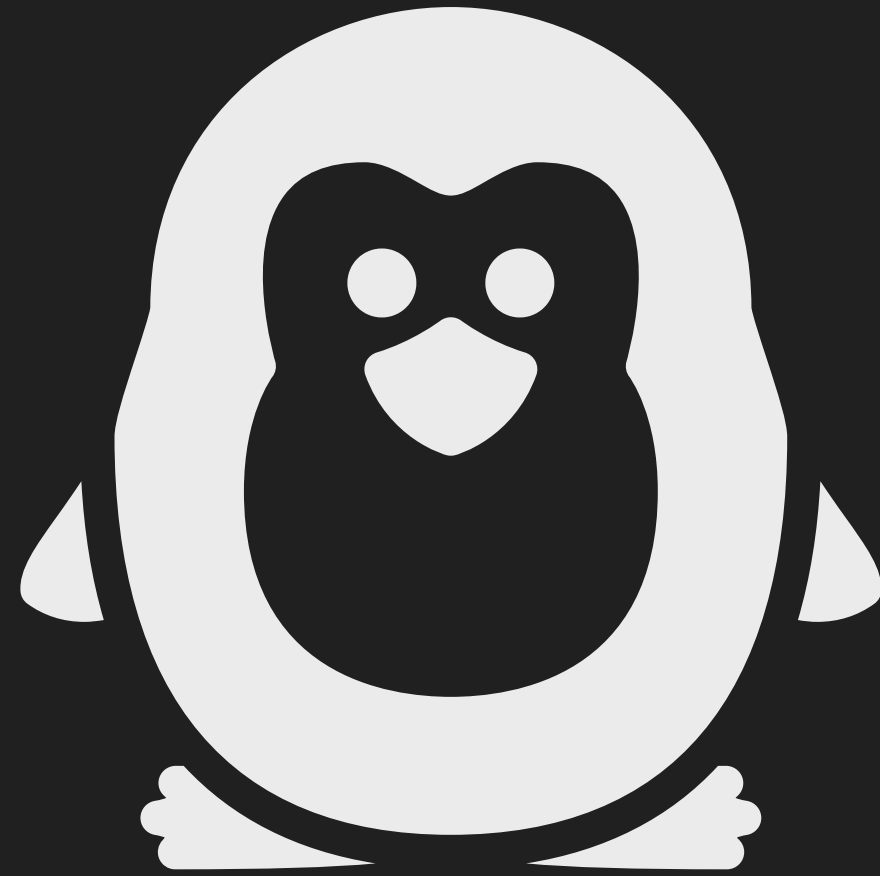
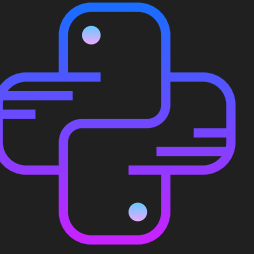
 python 3.8



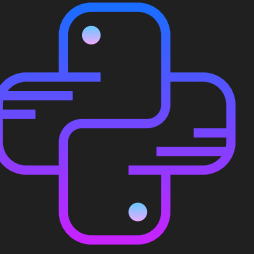
Jupyter Notebook



Visual Studio Code

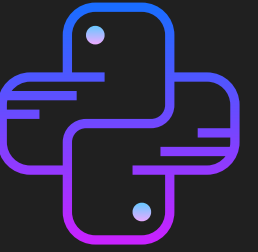


Linux



Aliases

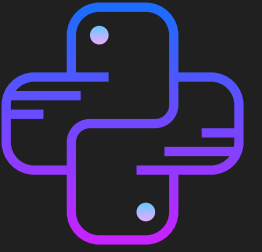




Code

Memory

Variable	Value

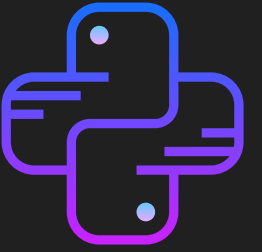


Code

1) `var_1 = 20`

Memory

Variable	Value

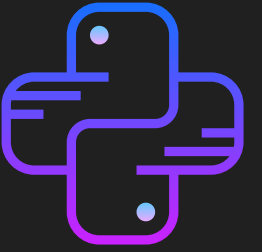


Code

1) `var_1 = 20`

Memory

Variable	Value
<code>var_1</code>	20

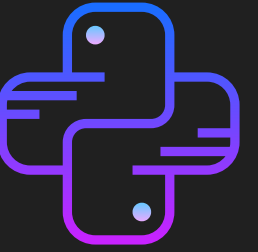


Code

```
1) var_1 = 20  
2) var_2 = var_1
```

Memory

Variable	Value
var_1	20

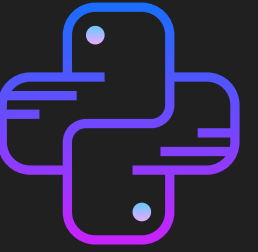


Code

```
1) var_1 = 20  
2) var_2 = var_1
```

Memory

Variable	Value
var_1	20
var_2	20

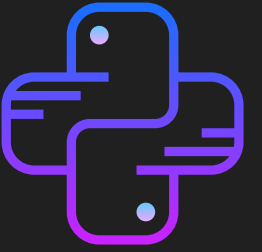


Code

```
1) var_1 = 20  
2) var_2 = var_1  
3) var_1 = 300
```

Memory

Variable	Value
var_1	20
var_2	20

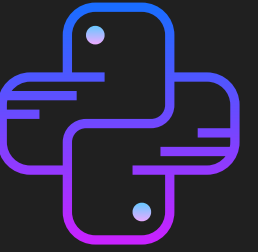


Code

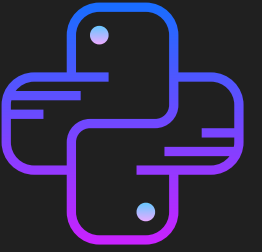
```
1) var_1 = 20  
2) var_2 = var_1  
3) var_1 = 300
```

Memory

Variable	Value
var_1	20
var_2	300



That's how immutable
variables are dealt with.
How about Mutable ones?

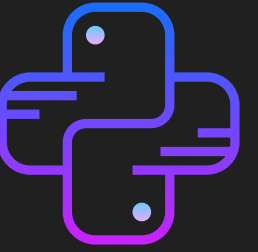


Code

1) `var_1 = ["imc", 20]`

Memory

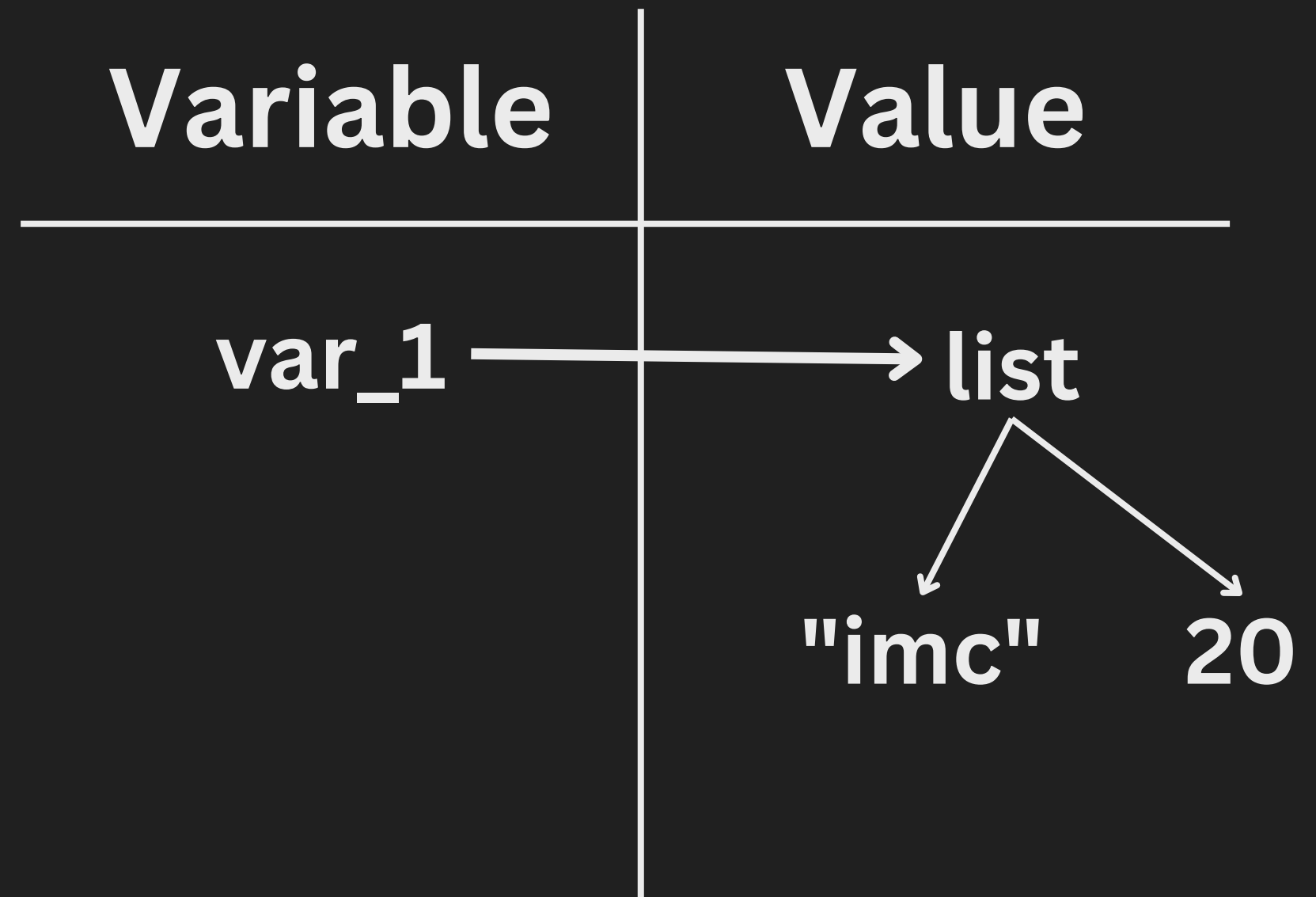
Variable	Value

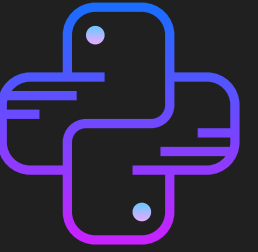


Code

```
1) var_1 = ["imc", 20]
```

Memory

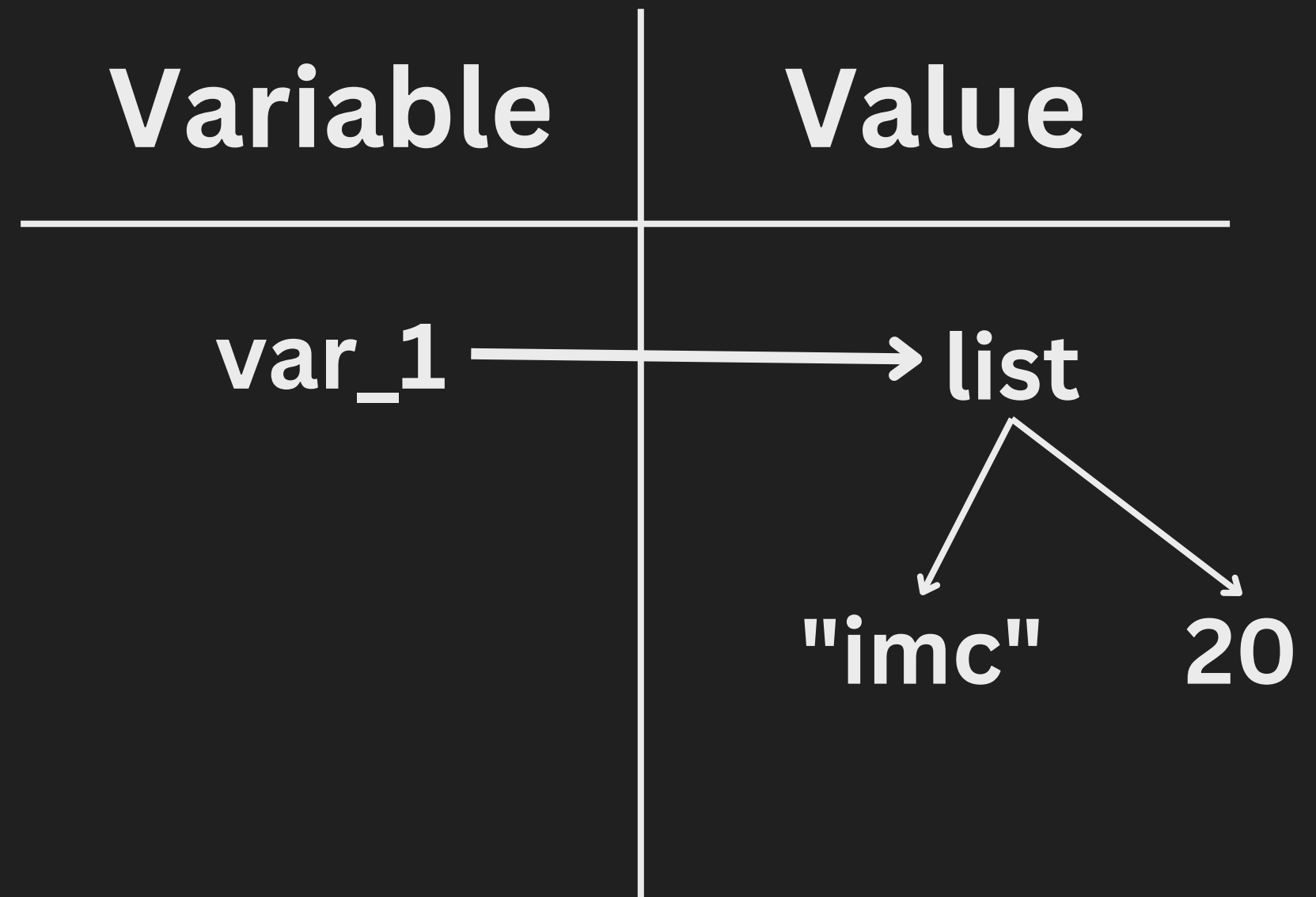


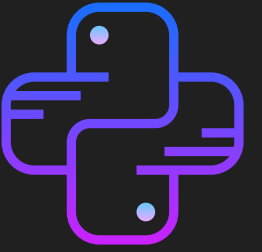


Code

```
1) var_1 = ["imc", 20]  
2) var_2 = var_1
```

Memory

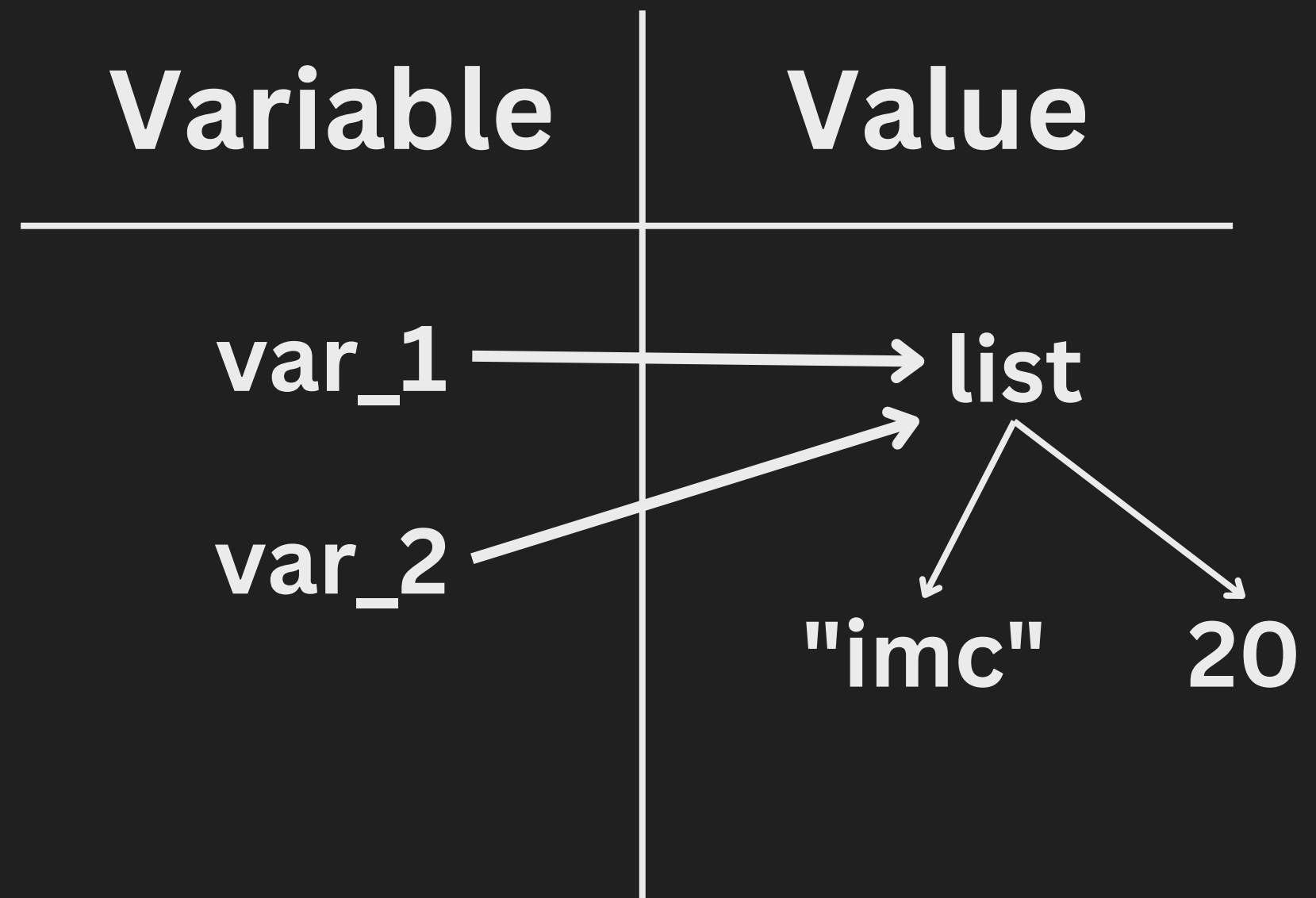


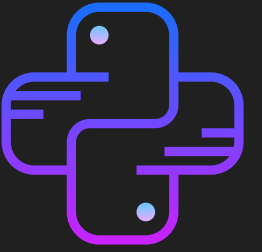


Code

```
1) var_1 = ["imc", 20]  
2) var_2 = var_1  
3) var_2[1] = "khairi"
```

Memory

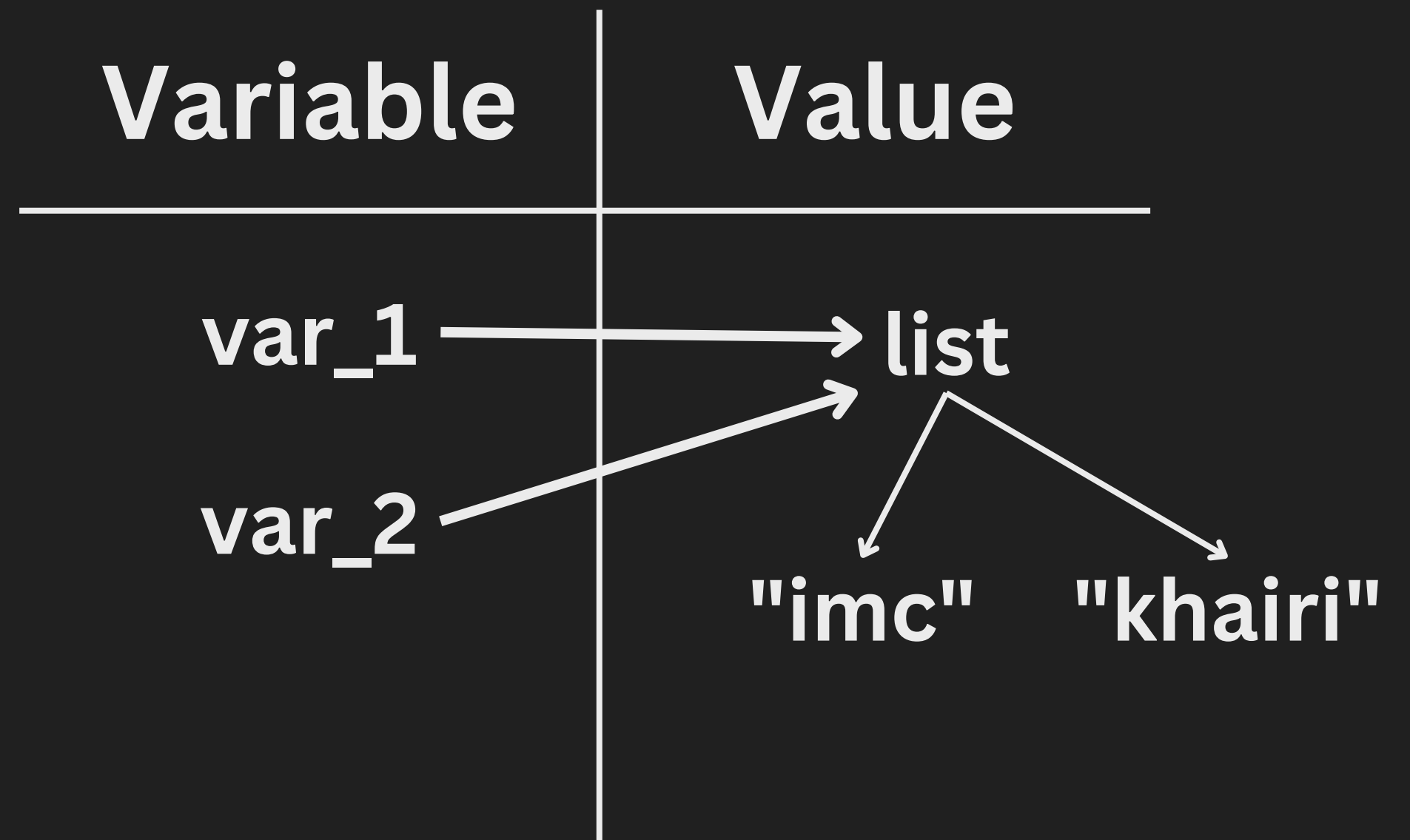


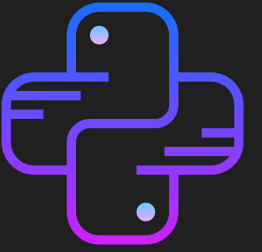


Code

```
1) var_1 = ["imc", 20]  
2) var_2 = var_1  
3) var_1[1] = "khairi"
```

Memory





**THANK YOU FOR YOUR
ATTENTION!**

Do you have any questions?