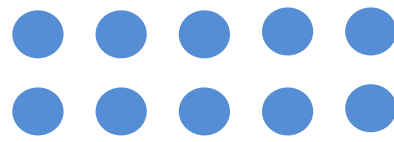


Introduction to Python



Course Structure



Understand fundamental programming concepts

Write your own Python scripts

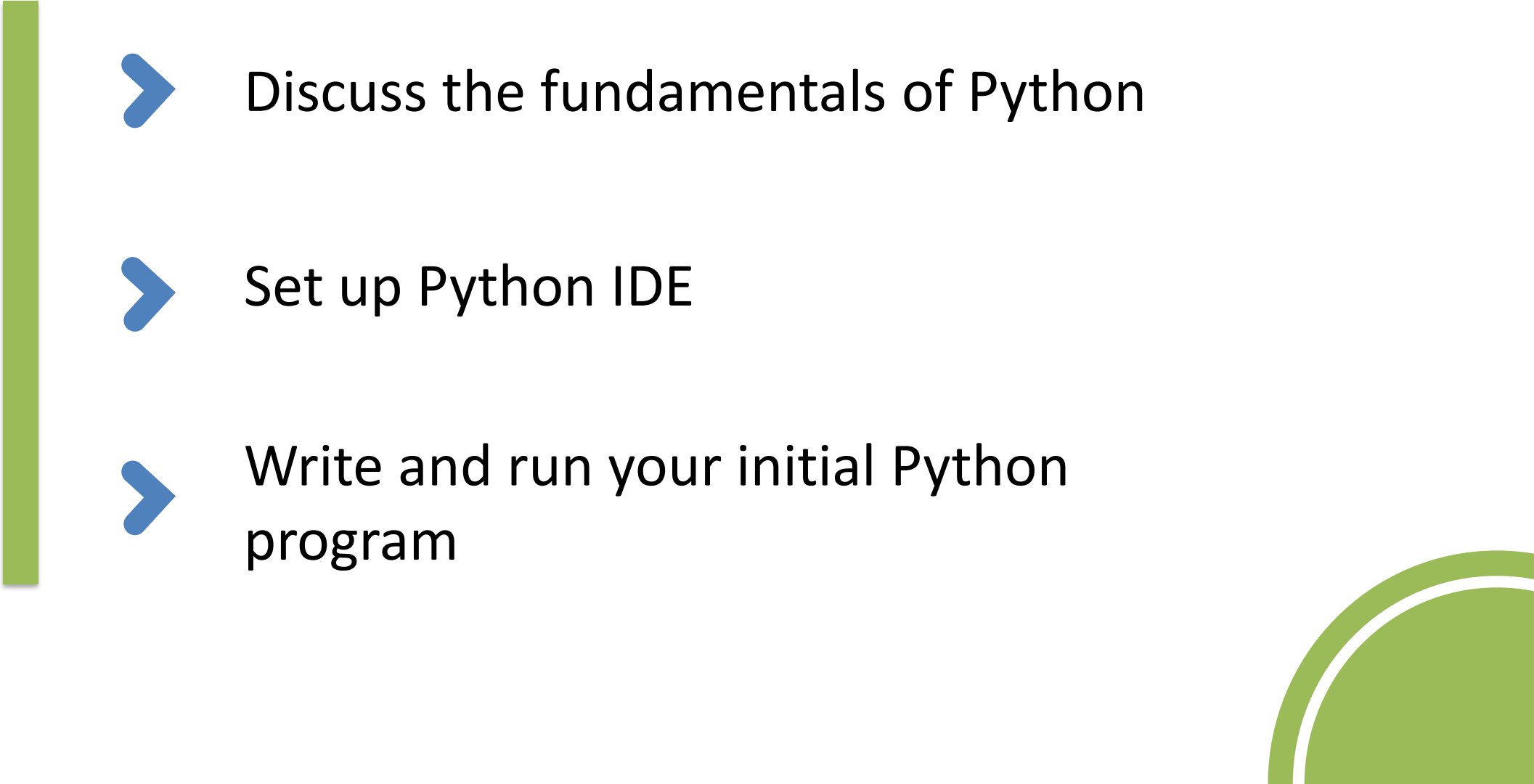
Basic syntax and data types

Control structures

Functions and modules



LESSON OBJECTIVES

- 
- Discuss the fundamentals of Python
 - Set up Python IDE
 - Write and run your initial Python program

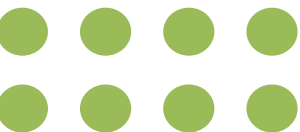
What is Python?

- Python was designed by Guido van Rossum.
- Python's popularity grew significantly, especially in fields like data science, machine learning, and web development.
- High-level, interpreted programming language known for its simplicity and versatility.

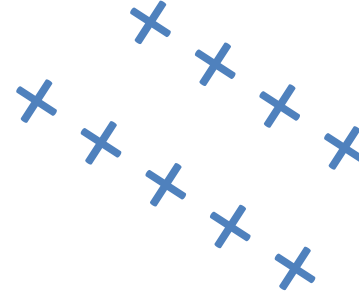


Key features

- Easy to learn and use
- Extensive standard library
- Large and active community
- Cross-platform compatibility
- Interpreted, allowing for rapid development and testing



Popular applications



- Web development
- Data analysis and visualization
- Artificial intelligence and machine learning
- Data science
- Automation and scripting
- Internet of Things (IoT)



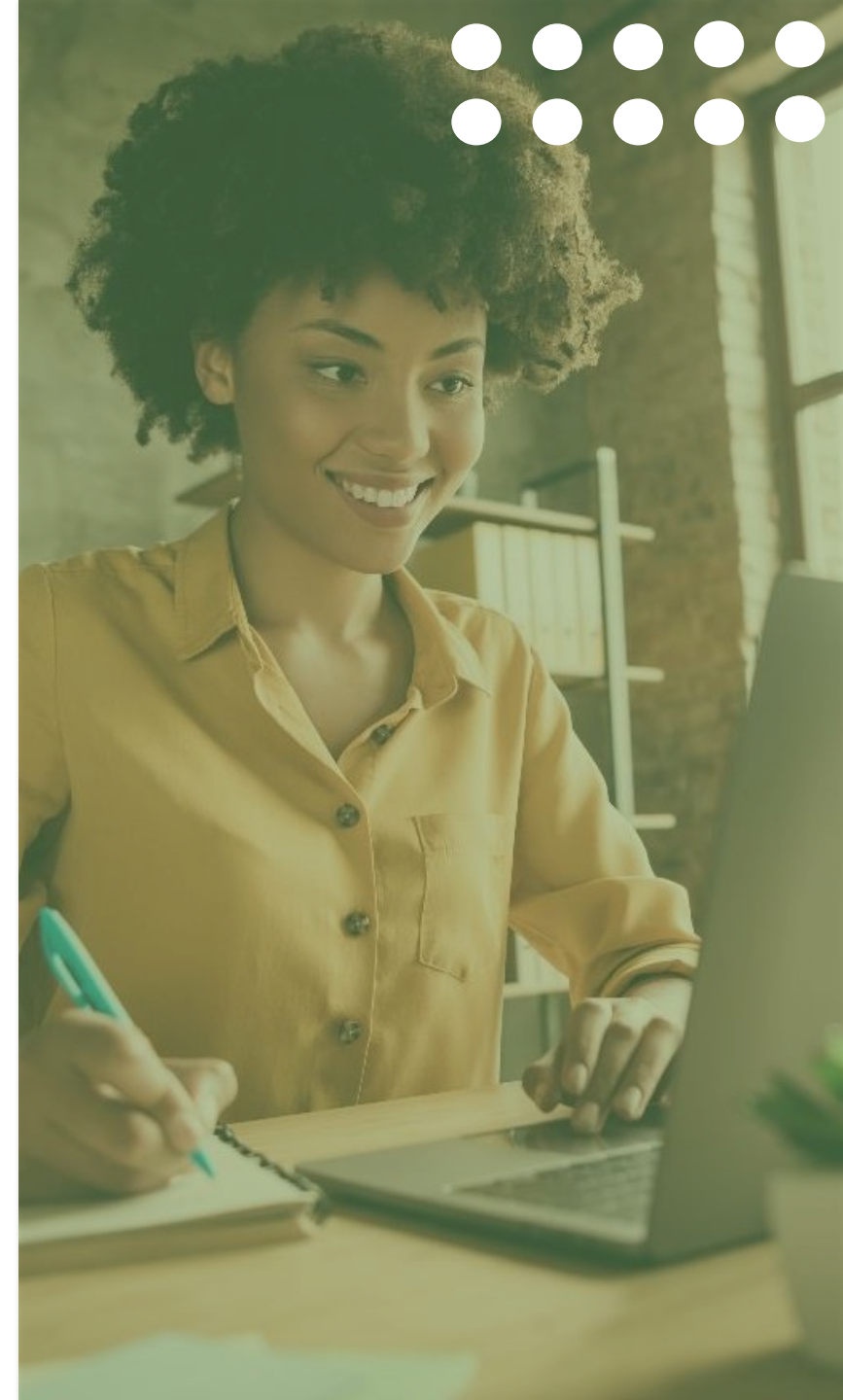
Why learn Python?

Excellent language for beginners

Used in various fields

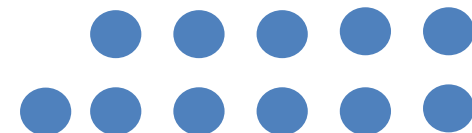
Vast community means ample resources

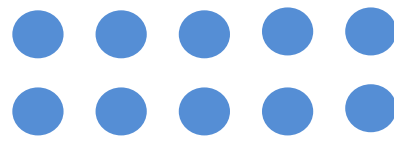
Python runs on various operating systems



Code example

```
carlist = ["Toyota", "Jaguar", "Tesla"]  
for car in carlist:  
    print(car)
```





Getting started with Python

