



Course Structure

Each level consists of 8 lessons.

YEAR 1

Foundation 1 (F1)

- > Intro to Python UI.
- > Learn to code using:
 - > Variables
 - > Numbers
 - > Strings
- > Attempt simple projects.

Foundation 2 (F2)

- > Learn to code using:
 - > Index
 - > Slicing
 - > 'IF' statements
 - > Logical operators
 - > Comparison operators

Intermediate 1 (I1)

- > Learn about Data Structures:
 - > Lists
 - > Dictionary
 - > Tuples
- > Learn about different types of loops:
 - > Conditional (while)
 - > Iteration (for)

Intermediate 2 (I2)

- > Learn the basics of functions and how to create them.
- > Learn to code using:
 - > Variable scope
 - > Keyword arguments
- > Apply skills learned in year 1 on interesting projects.

YEAR 2

Intermediate 3 (I3)

- > Learn about:
 - > Code optimisation
 - > File processes
 - > Modules (In-built)
 - > Modules (Self-made)
- > Knowledge check.

Intermediate 4 (I4)

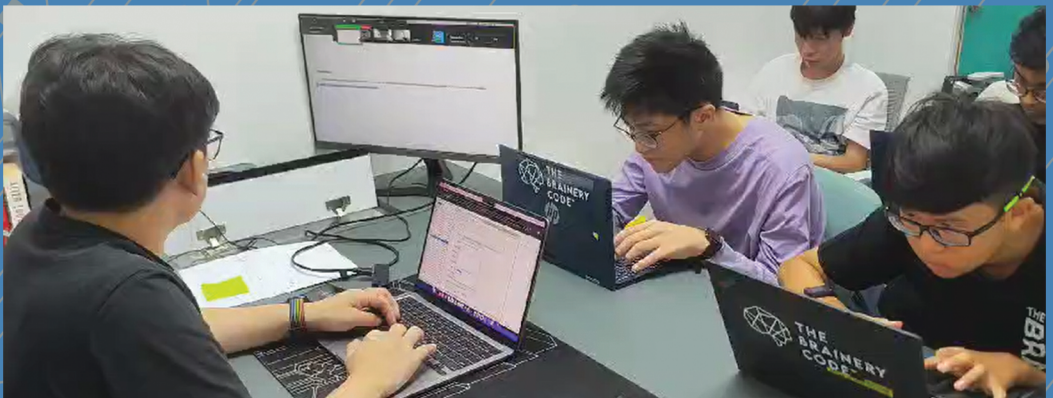
- > Learn about Libraries.
 - > Turtle library:
 - > Basic controls
 - > Displaying text
 - > Drawing projects
 - > Pygame library:
 - > Game logic
 - > Game development
 - > Import and use sprite
 - > Creating 2D games

Explorer 1 (E1)

- > Familiarise with Graphic User Interfaces (GUIs).
- > Learn how to create widgets and program the interactions between them.
- > Create useful applications.

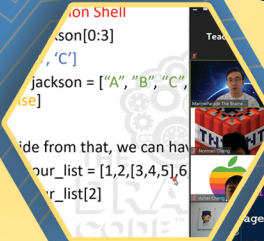
Explorer 2 (E2)

- > Intro to Data analytics using "Pandas" library.
- > Derive useful data from large datasets.
- > Learn how to:
 - > Create dataframes
 - > Manipulate rows and columns
 - > Manage cells and the data within them





**Master
fundamentals of
Python by building
productivity tools,
games and desktop
applications!**



```
My name is Teacher R
= input()
ent("Hi (!) How old are you?"
age = int(input())

if age < 357:
    print("Ah! You are younger than
elif age == 357:
    print("We are the same age!")
else:
    print("You are younger than
("Which city do you stay
input(), title()
```

Official PYTHON
trainer for Shopee



What is PYTHON CODER™?

-  Python is a versatile and highly scalable coding language used by some of the world's biggest tech giants like Google, Dropbox, and Instagram.
-  Our Python Coder course is great for students new to Text-based coding.
-  Student will learn abstract concepts such as variables, data structures and many more.
-  Our programme also explores interesting and useful Python libraries such as Pygame, Pandas.

Course Details

-  For children age 9 and above
-  All materials provided
-  1:8 Instructor - Student ratio
-  Weekly class
-  1 hr 30 mins per lesson
-  Hybrid learning (Choose online/onsite)

Why choose The Brainer Code™?

Official Python Trainer for Shopee

Shopee Code League official trainer
(2020 - 2021)

Represented Singapore at World Robot Olympiad™
(2014, 2017, 2019, 2023)

National Robotics Competition Winners
(2014, 2017, 2018, 2019, 2022)

RoboCup Winners 7 years in a row!
(2016 - 2022)

First® Lego® League Winner
(2022)

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