

CREST

COMPUTER SCIENCE • CLASS 9

Introduction to Python

Your first programs: print, variables and input

TEACHER
Teacher Name

CLASS
9

PERIOD
40 minutes

Lesson plan



01

Warm-up

03

Explore

02

Learn

04

Practise

Learning objectives

- Write and run a Python program
- Store values in variables
- Take input from the user
- Do simple calculations

YOU ALREADY KNOW

How to open and save files.



**Can you make a
computer greet you by
name?**

Think about it

What is a program?

A program is a list of instructions a computer follows.

Python reads lines from top to bottom. `print()` shows output, variables remember values and `input()` asks the user for information.



Diagram / picture

Key terms

01

Variable

A named box that stores a value.

02

String

Text inside quotes, e.g. "Hello".

03

Integer

A whole number, e.g. 42.

Your first program

01 Open

IDLE or an online editor

02 Ask

```
name = input("Name? ")
```

03 Print

```
print("Hello", name)
```

04 Run

Press F5 and test

Data types

Type	Example	Use
int	15	Counting
float	3.14	Measuring
str	"Asha"	Text

Use `type()` to check any value.

Did you know?

1991

Python first released

#1

language for beginners

Not a snake

named after a comedy
show

Real-life examples



Image 1

Games

Simple quiz games



Image 2

Science

Data and graphs



Image 3

Websites

Back-end servers

Scratch vs Python

Scratch

- Drag-and-drop blocks
- Great for starting
- Visual output

vs

Python

- Typed code
- Used by professionals
- Runs everywhere

Check your understanding

- What does `print()` do?
- Store your age in a variable
- Why is text put in quotes?
- What is $3 + 4 * 2$?

Activity time

01

Greeting bot

Ask name and age, print a message.

02

Calculator

Add two numbers from input.

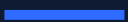
03

Bug hunt

Fix five broken programs.

Homework

- Print your timetable with Python
- Convert Celsius to Fahrenheit
- Make three errors and note the messages



Great work today!

Next lesson: If-else decisions