Day 1

Python

Python is a high-level interpreted programming language that is known for its simplicity, readability and versatility.

It is widely used for:

-) web Development (Django, Flask)

-) Data Science & machine learing (pandas, Numpy, Tenkor Flow).

-) Automation & scripting

-) Game Development (Pygame)

-) Cyber Security & Ethical Hacking

Python follows a clear and readable syntax that makes it an excellent choice for both beginners and advanced developers.

Day 2   Variables and Data Types

Variable :

A variable is a name given to a value stored in memory. It act as a container that holds data, which can be changed later in the program.

Data Types :

A data types defines what kind of data a variable can hold. Python has several built-in data types.

common data types :

→ int (integer) ⟹ $X = 10$

⟹ float (floating) ⟹ $Y = 3.14$

→ str (string) ⟹ name = "Alice"

→ bool (Boolean) ⟹ is_valid = True

→ list (List) (ordered collection) ⟹ fruits = ["apple", "banna", "chery"]

= Tuple (immutable collection ⟹) coordinates (10, 20)

→ dict (Dictionary) (key, value pairs) person = {"name": "john", "age": 30}

→ Set   unordered unique values.
unique num = {1, 2, 3, 4}