VIKRAM KUMAR
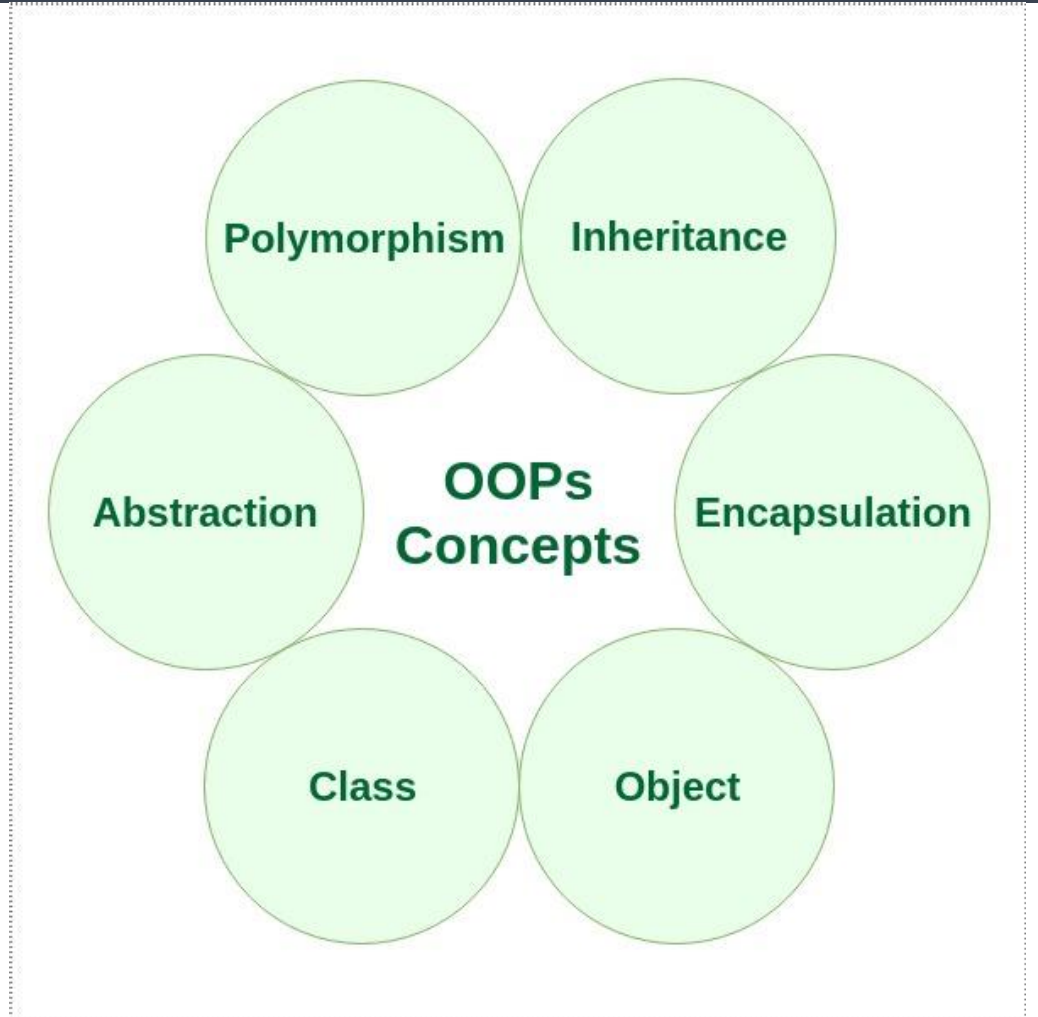
What is OOPs?

•OOP is a programming paradigm based on real-world objects.

•Focuses on organizing code into reusable structures.

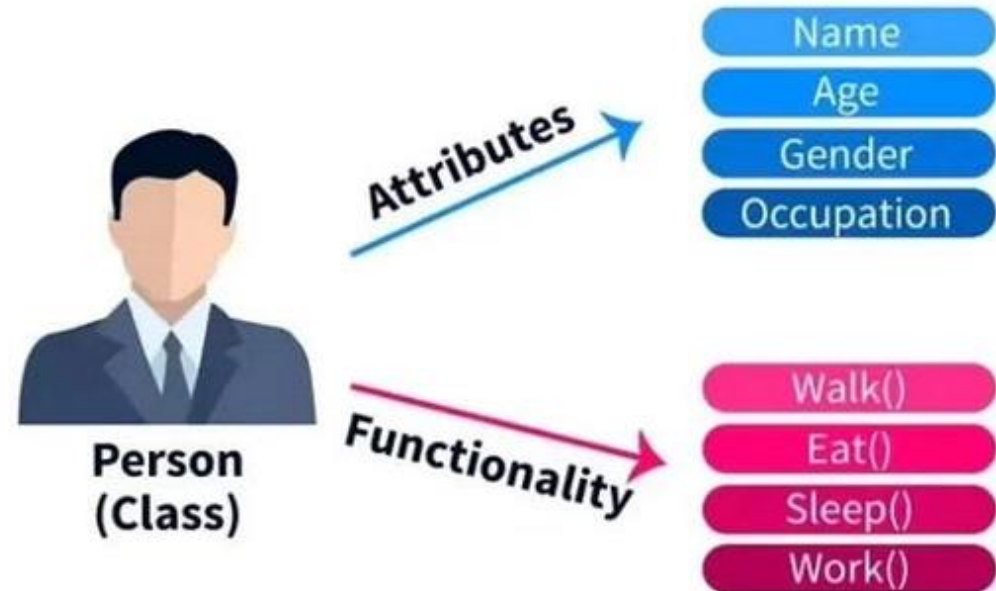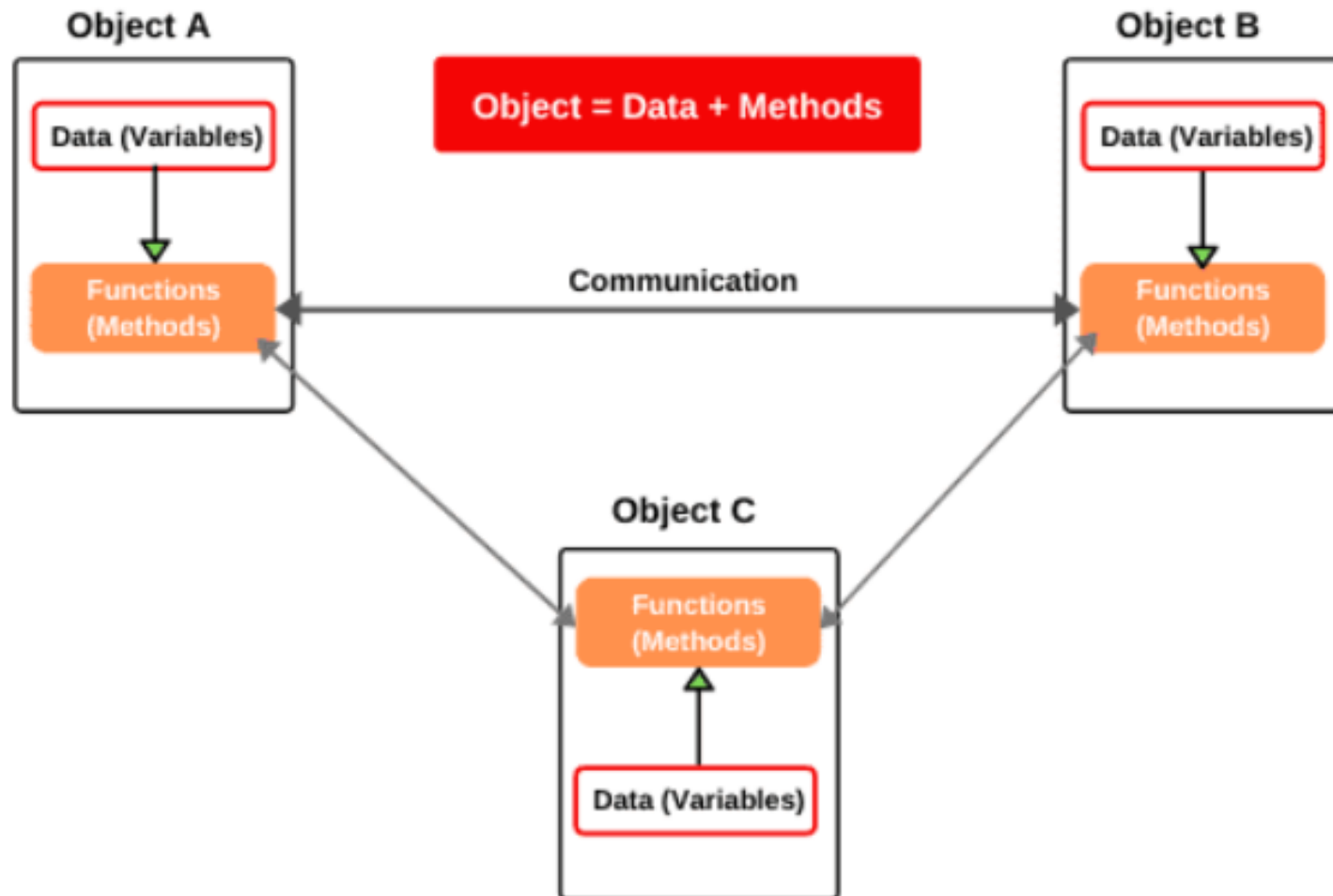•Popular in languages like Java, Python, C++, and Dart (Flutter)

CLASS and OBJECT

CLASS

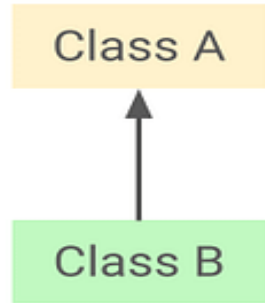A class is a blueprint for declaring and creating objects.

What is Class?

Person (Class)

Attributes →
- Name
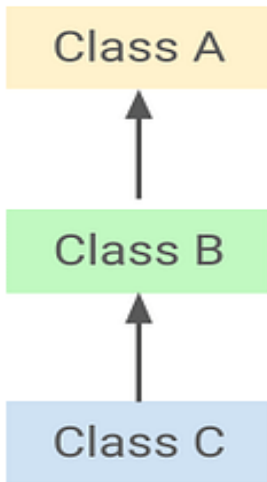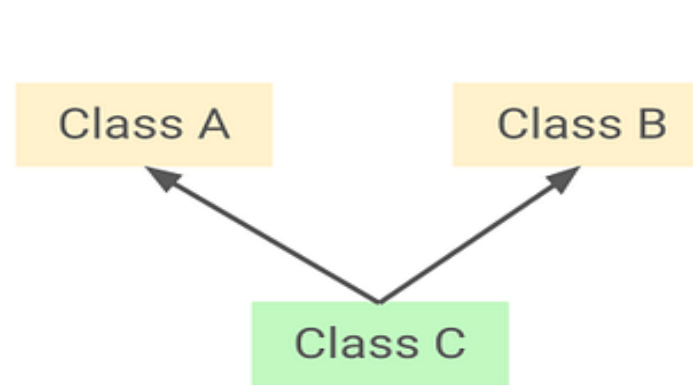- Age
- Gender
- Occupation

Functionality →
- Walk()
- Eat()
- Sleep()
- Work()

OBJECT

INHERITANCE

Class A

Class B

Single Inheritance

Class A

Class B   Class C   Class D
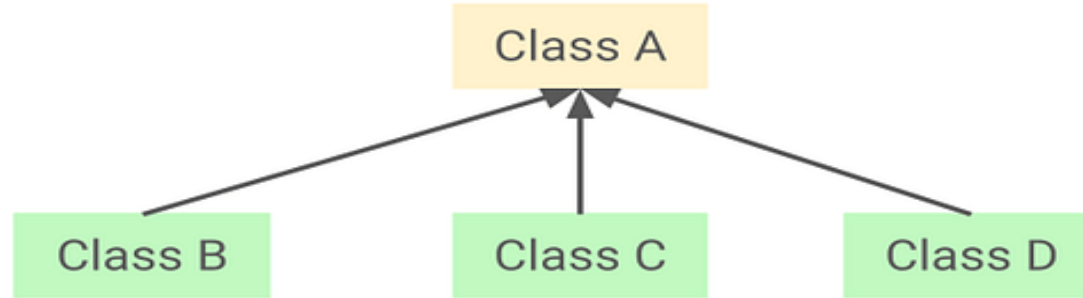
Hierarchical inheritance

Class A

Class B

Class C

Multilevel Inheritance

Class A   Class B

Class C

Multiple Inheritance

Class A

Class B   Class C

Class D
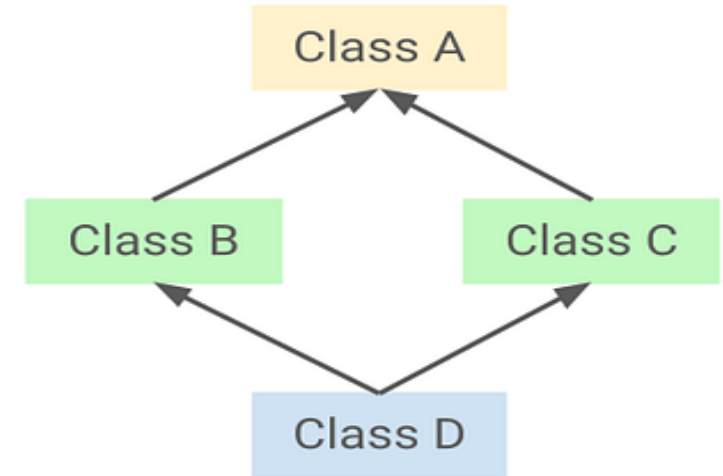
Hybrid Inheritance

ABSTRACTION and ENCAPSULATION
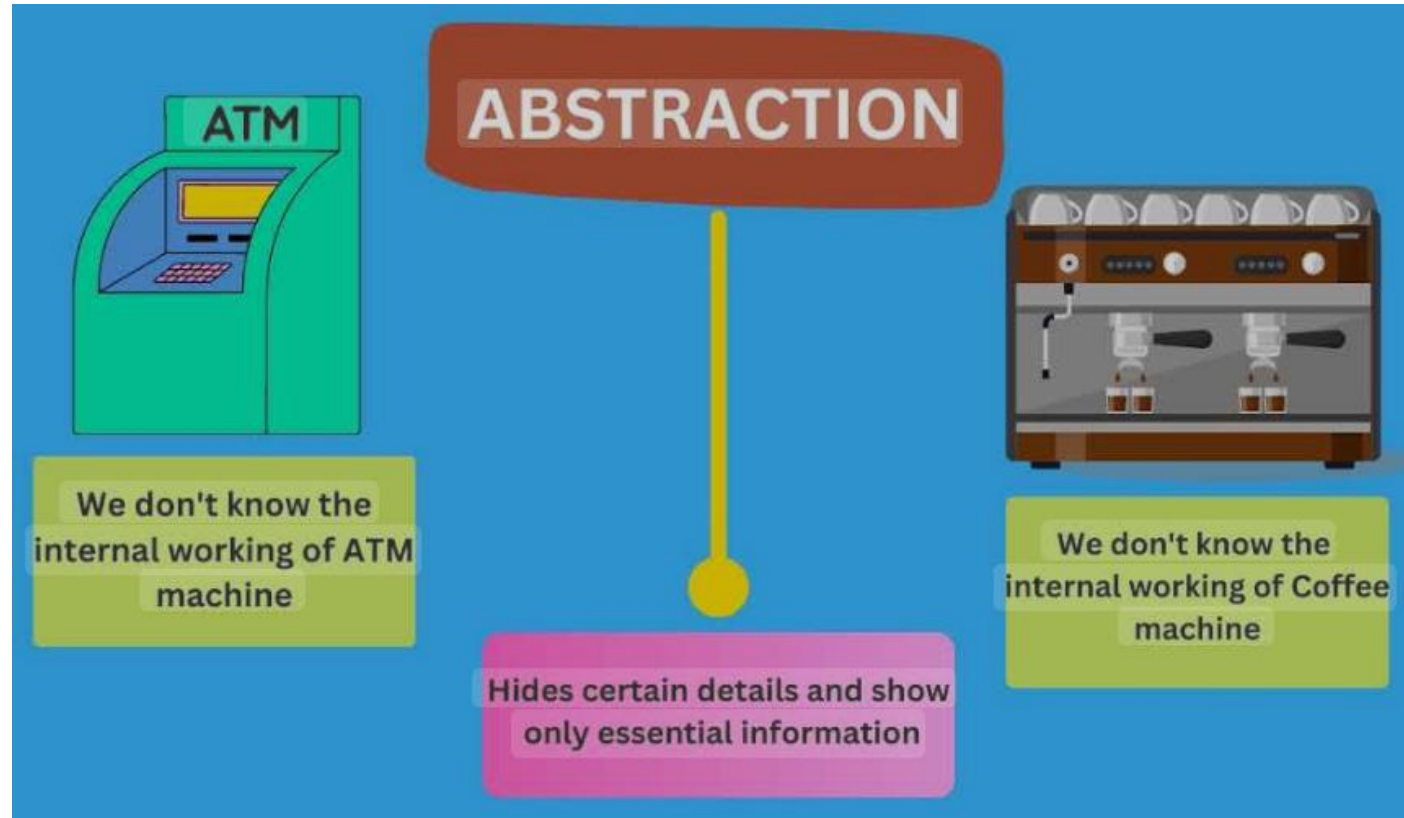
PolymorPhism

Polymorphism

Conclusion

- OOP improves efficiency, security, and maintainability in coding.
- Essential for modern programming and software development.

Thank You.
Any Query….