

**SUBJECT: OBJECT ORIENTED PROGRAMMING USING C++**

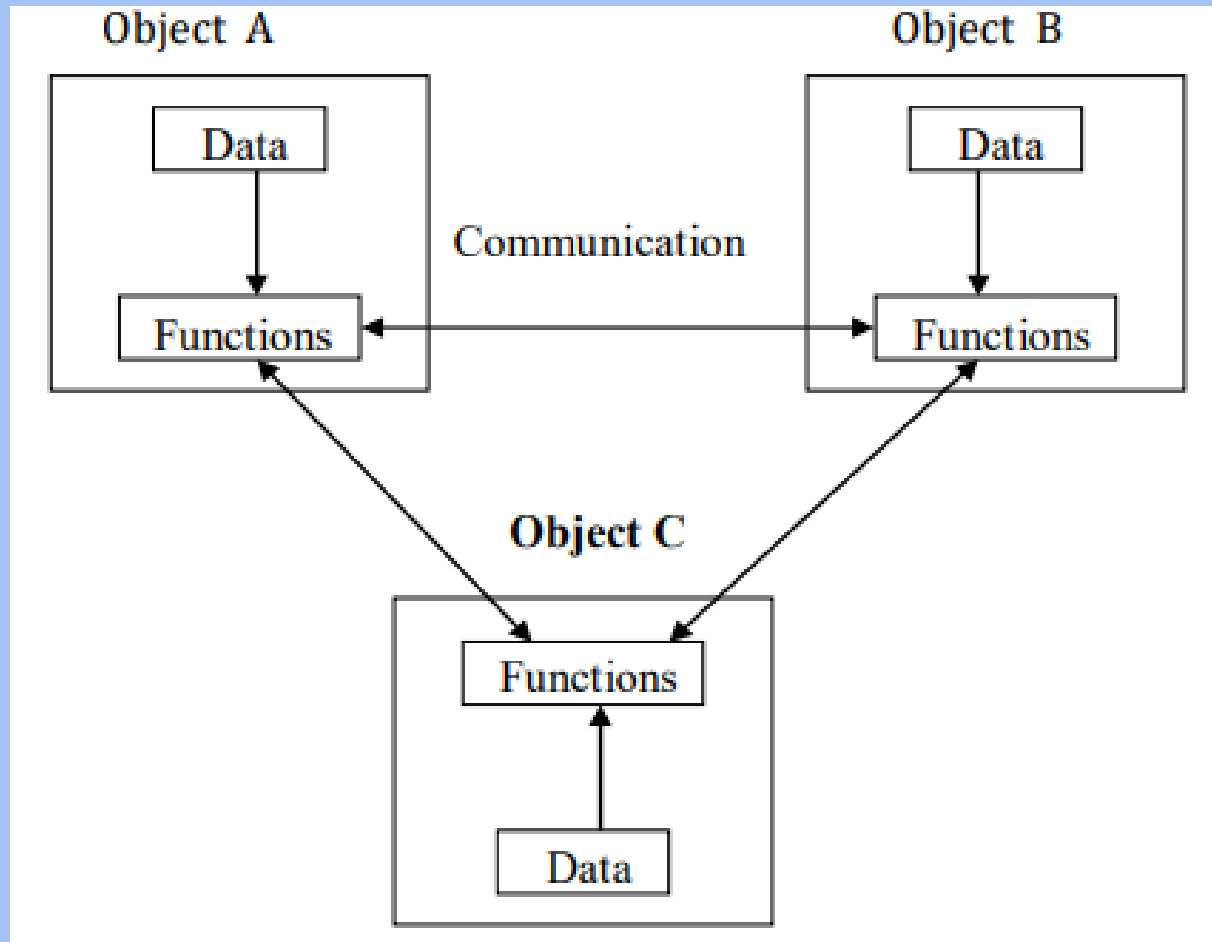
# **Object Oriented Programming (OOP)**

**Elementrix Classes**

# Object Oriented Programming (OOP)

- ❑ The major motivating factor in the invention of object oriented approach is to overcome the drawbacks of procedural oriented approach.
- ❑ The principal of Object Oriented Programming Approach is to combine both data and functions into a single unit. such a single unit is called object.
- ❑ Object oriented programming treats data as critical element in the program development and does not allow it freely to flow around the system or application or program.

- ❑ Object oriented programming combines both data and functions in to a single unit this process is called Encapsulation.
- ❑ Ex : languages like C++, JAVA, PYTHON follow this approach.
- ❑ The organisation of data and functions in Object oriented programming is shown in the following figure.



# Features of Object Oriented Programming

- In OOP importance is given to data rather than procedure.
- Programs are divided into what are known as objects.
- New data and functions can be easily added whenever necessary.
- Data of an object can be accessed only by functions associated with that object.
- Data is hidden and can't be accessed by external functions.
- Objects may communicate with each other through functions.
- Follows bottom-up approach in program design.

पढ़िए और पढ़ाइये

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