C++ in depth

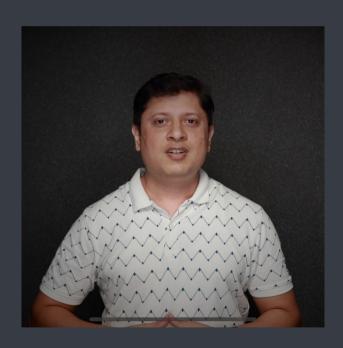## Structure in C++

Part - 2

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<u>Agenda</u>

① Recall structure in C language
② Use structure of C in C++ program
③ New rules in C++ structure.

What is new in C++ Structure?

① use of struct keyword is optional on every use of non primitive type

② Structure can have functions too as members

③ Use of access specifiers for the members of structure.

Encapsulation

An act of combining properties and methods related to the same entity is known as Encapsulation

properties = fields = Data member = attribute = Varial

methods = functions = procedure = Service = funct

Data Hiding

Data Security

```
int a;
float b;

f1() {...}

f2() {...}
f3() {...}
f4() {...}
f5() {...}
```

Access Specifiers

→ private
→ protected
→ public

Can be applied only on members

Abstraction

Hiding implementation details.

By defining methods in structure and making them public, is allowing users of the structure to call them but they can't see the implementation details of the function, this is abstraction.

```
cout << "Hello";
```

Book
↗
Structure

b1
↖ object

state of an object should only be
changed via methods of that object

b1

bookid	title	price

b2

bookid	title	price

Set of property values in an object is called
its state.