What is Class

By Rahul Barve

What is Class

- A class is at the core of Java.
- Any concept to be implemented, must be encapsulated within a class.

By Rahul Barve

What is Class

- A Class is a template that decides a structure for an object.

- Using classes and objects, one can map 2 major pillars of OOP: Abstraction and Encapsulation.

Class Syntax

```
class <class-name> {
  <variable-declarations>
  <method-definitions>
}
```

By Rahul Barve

A Simple Class

```
class Planet{
  String name;
  int moons;
}
```

By Rahul Barve

Creating Object

By Rahul Barve

Creating Object

- Once a class is created, it can be further used by creating its object.

- Syntax:

```
<class-name> <ref-var-name> =
                 new <class-name>();
```

Access Modifiers

By Rahul Barve

Access Modifiers

- Access modifiers are used to specify the scope of class members.
- These are `private, public, protected` and `default.`

By Rahul Barve

Adding Methods

By Rahul Barve

Adding Methods

- Once an object is created, at any time it can be manipulated with the help of methods.

- Methods act like behaviors or operations.

By Rahul Barve

Adding Methods

- Syntax:

```
<return-type> <method-name> ([param-list]){
      //Some Code
}
```

Accessor and Mutator Methods

By Rahul Barve

Accessor and Mutator Methods

- Used to retrieve or modify the values of the fields for a specific object.
- These methods follow the convention:

  `getXXX()` and `setXXX()`

By Rahul Barve