Classes and objects

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Class

- A class is a blueprint/template from which objects are created.
- It defines the **properties (fields/variables)** and **behaviors (methods)** that the objects of that class will have
- It does not occupy memory until an object is created.
- eg.

Object

- An object is an instance of a class.
- It represents a real-world entity with its own **state (values of fields)** and **behavior (methods execution)**.
- Objects occupy memory when they are created using the new keyword.
- eg.

```
// object initialization
Car c1 = new Car();
```