

Classes & Objects:

- * Class : →
- * A class is an entity which acts like a blue-print or template to create objects/instances.
- * It is used to represent a real world entity.
- * It has no memory of its own and is assigned 1 byte by default.

Object/Instance/Reference:

An object is an instance of a class. It means that it acts like a key, by which we can access all the data inside a class.

PNC
Class Employee {
 int Age; } Attribute
 String Name; } Properties
 String Company; }
obj → [Sanjay, 21, TCS]
 → Speak(); } Methods
 → Write(); } xxxx

oop Properties:

- * Reliability
- * Efficiency
- * Code Re-usability
- * Data Encryption
- * Data Security
- * Clean Code

Constructor: →

- It is a special method used to initialize/instantiate objects.
- It should be always public.
- It should be same name as the class.
- If we don't create, compiler generates a default constructor.
- If we create our own, the default constructor is deleted.

Two types of Constructors:

- ① Default Constructor
 or
 No-argument Constructor
- ② Parameterized Constructor

What is a Package?
Industry Standard of creating a package.

⇒ com. company. project. module.
TCS → ICICI file;
com.tcs.icici.login.login.java;
com
 tcs
 icici
 login → login.java;

A collection of similar classes & interfaces.

- * How do you resolve variable name clashes inside a class?
 "this" keyword. Heap
 or pointer.

Pillars of OOPS: →

① Encapsulation:

The process of wrapping the code & the data members inside a block → class, so that they are not accidentally modified, is called encapsulation. We achieve encapsulation by making the data members

"private!"

We can access them outside the class by two special functions:

- ① Getters → Fetch
- ② Setters → Assign

void?

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