CYDEO

Custom Class: Constructors

Constructor

- A special method that every class must have.
- It’s used when we create objects of a class.
- We can use constructors to initialize the object’s instance variables.
- Execution of a constructor always depends on the object.

Creating Constructors

- Constructor is a special method that matches the name of the class and has no return type nor a specifier.

```
public class Car{

    public Car(){

    }

}
```

```
public class Employee{

    public Employee(int age){

    }

}
```

Types of Constructors: No-Argument

- A constructor that has no parameter.
- Also known as default constructor.
- If we do not define constructor is a class, then compiler creates default constructor

```
public class Car{

    public Car(){

    }

}
```

Types of Constructors: Parameterized

- A constructor that has parameters.
- If we want to initialize the fields (instance variables) of the class with our own values, then we pass parameters to the constructor

```
public class Employee{

    public Employee(int age){

    }

}
```

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Constructor Overloading

- We can have multiple constructors in a class by implementing method overloading

```
public class Dog{

    public Dog(){
        // no-arg constructor
    }

    public Dog(int age){
        // constructor with int argument
    }

    public Dog(String breed){
        // constructor with String argument
    }

}
```