**Java Constructors**

A constructor in Java is a **special method** that is used to initialize objects. The constructor is called when an object of a class is created. It can be used to set initial values for object attributes:

**Example**

Create a constructor:

// Create a MyClass class  
public class MyClass {  
  int x;  // Create a class attribute  
  
  // Create a **class constructor** for the MyClass class  
  public MyClass() {  
    x = 5;  // Set the initial value for the class attribute x  
  }  
  
  public static void main(String[] args) {  
    MyClass myObj = new MyClass(); // Create an object of class MyClass (This will **call the constructor**)  
    System.out.println(myObj.x); // Print the value of x  
  }  
}  
  
// Outputs 5

Note that the constructor name must **match the class name**, and it cannot have a **return type** (like void).

Also note that the constructor is called when the object is created.

All classes have constructors by default: if you do not create a class constructor yourself, Java creates one for you. However, then you are not able to set initial values for object attributes.

**Constructor Parameters**

Constructors can also take paramaters, which is used to initialize attributes.

The following example adds an int y parameter to the constructor. Inside the constructor we set x to y (x=y). When we call the constructor, we pass a parameter to the constructor (5), which will set the value of x to 5:

**Example**

public class MyClass {  
  int x;  
  
  public MyClass(int y) {  
    x = y;  
  }  
  
  public static void main(String[] args) {  
    MyClass myObj = new MyClass(5);  
    System.out.println(myObj.x);  
  }  
}  
  
// Outputs 5

You can have as many parameters as you want:

**Example**

public class Car {  
  int modelYear;  
  String modelName;  
  
  public Car(int year, String name) {  
    modelYear = year;  
    modelName = name;  
  }  
  
  public static void main(String[] args) {  
    Car myCar = new Car(1969, "Mustang");  
    System.out.println(myCar.modelYear + " " + myCar.modelName);  
  }  
}  
  
// Outputs 1969 Mustang