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Java abstract Keyword

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Example

An abstract method belongs to an abstract class, and it does not have a body. The body is provided by the subclass:

```
// Code from filename: Main.java
// abstract class
abstract class Main {
 public String fname = "John";
 public int age = 24;
  public abstract void study(); // abstract method
}
// Subclass (inherit from Main)
class Student extends Main {
  public int graduationYear = 2018;
 public void study() { // the body of the abstract method is provided here
    System.out.println("Studying all day long");
 }
}
// End code from filename: Main.java
// Code from filename: Second.java
class Second {
```

```
public static void main(String[] args) {
    // create an object of the Student class (which inherits attributes and meth
    Student myObj = new Student();

    System.out.println("Name: " + myObj.fname);
    System.out.println("Age: " + myObj.age);
    System.out.println("Graduation Year: " + myObj.graduationYear);
    myObj.study(); // call abstract method
    }
}
```

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Definition and Usage

The abstract keyword is a non-access modifier, used for classes and methods.

Class: An abstract class is a restricted class that cannot be used to create objects (to access it, it must be inherited from another class).

Method: An abstract method can only be used in an abstract class, and it does not have a body. The body is provided by the subclass (inherited from).

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