Abstract class and method

Data **abstraction** is the process of hiding certain details and showing only essential information to the user.
Abstraction can be achieved with either **abstract classes** or **interfaces**

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

- **Abstract class:** is a restricted class that cannot be used to create objects (to access it, it must be inherited from another class).

- **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).

```
abstract class Animal {
   abstract void makeSound();

   public void eat() {
      System.out.println("I can eat.");
   }
}

class Dog extends Animal {

   public void makeSound() {
      System.out.println("Bark bark");
   }
}
class Main {
   public static void main(String[] args) {
      Dog d1 = new Dog();
      d1.makeSound();
      d1.eat();
   }
}
```

Rules for Java Abstract class