### **ABSTRACTION**

It is an OOP **technique** that hides certain details and only shows the important information.

It can be achieved in 2 ways:

- Abstract Classes (Uses abstract modifier)
- Interfaces (Uses implements keyword)

### **ABSTRACT Class**

It cannot be **instantiated**, to access it you need to inherit it from another class.

# **ABSTRACT Methods**

Can only be declared inside an abstract class, It is a Method without a body and it needs to be overridden in the subclass of the abstract class.

# **USING Abstraction (Abstract Classes)**

```
{
    //Arf
}

class Cat extends Animal
{
    void makeSound()
    {
        //Meow
    }
}
```

# **IMPLEMENTS** Keyword

Used after the class name so that we can implement an interface in that certain class.

**Implemented interface requires** the **class** to **override** every **method** inside the **interface**.

PS We can implement 1 or more interfaces in each class.

### **INTERFACE**

It is full Abstract Class that is implemented in other classes.

Any **method** you declare would be an **abstract method**, by default you can use the **default** modifier to create a method with body. The method would be **static**.

Any variable that you declare would be static and final.

# **USING Abstraction (Interfaces)**