|  |  |
| --- | --- |
| **Abstract** | **Interface** |
| Could extend **one** class | Could extends **any** number of interfaces |
| Can extend **class** or **abstract** **class** | Can only extends **interface** |
| Can have **abstract** and **concrete** methods | Can only have **abstract** methods |
| A class can extend only **one** abstract class | A class can implement **any** **number** interfaces |
| Keyword ’abstract’ is **mandatory** to declare a method as an abstract | Keyword ‘abstract’ is **optional** because all methods are abstract by default |
| Can have **protected**, **public** and **public** **abstract** method | Can have **public** abstract method by default |
| Can have **static**, **final**, **static** **final** variable | Can have only **static** **final(constant)** variable |

**Java 8 primitive types**

Byte 8bits, short 16bits, int 32bits, long 64bits, float 32bits, double 64bits, boolean is not precisely defined, char 16bits.

|  |  |  |
| --- | --- | --- |
| **Final** | **Finally** | **Finalize** |
| Used to apply restrictions on class, method and variable. Final class can't be inherited, final method can't be overridden and final variable value can't be changed. | Used to place important code, it will be executed whether exception is handled or not. | Used to perform clean up processing just before object is garbage collected. |
| Keyword | Block | method |

|  |  |
| --- | --- |
| **Object** | **Class** |
| an **instance** of a class | a **blueprint** or **template** of objects |
| a real world **entity** | a **group** of **similar** objects |
| **physical** entity | **logical** entity |
| created through **new** keyword mainly | declared using **class** keyword |
| created **many** times | declared **once** |
| **Allocates** memory when created | **Doesn't** **allocated** memory when created |
| **many** **ways** to create object in java such as new keyword, newInstance() method, clone() method, factory method and deserialization | only **one** **way** to define class in java using class keyword |