

Java Keywords - Summary with Examples

class

Defines a class.

Example:

```
class Animal {  
    void sound() {  
        System.out.println("Animal sound");  
    }  
}
```

public

Specifies visibility as everywhere.

Example:

```
public class Main {  
    public static void main(String[] args) {  
        System.out.println("Hello");  
    }  
}
```

static

Indicates the member belongs to the class.

Example:

```
static int count = 0;
```

void

Specifies method does not return any value.

Example:

```
void greet() {  
    System.out.println("Hello");  
}
```

Java Keywords - Summary with Examples

int

Declares an integer variable.

Example:

```
int age = 25;
```

if/else

Conditional branching.

Example:

```
if (age > 18) {  
    System.out.println("Adult");  
} else {  
    System.out.println("Minor");  
}
```

for

Loop construct.

Example:

```
for (int i = 0; i < 5; i++) {  
    System.out.println(i);  
}
```

while

Loop construct.

Example:

```
while (i < 5) {  
    i++;  
}
```

return

Returns value from method.

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Example:

```
return a + b;
```

new

Creates an object.

Example:

```
Animal dog = new Animal();
```

this

Refers to current object.

Example:

```
this.name = name;
```

super

Refers to parent class.

Example:

```
super.sound();
```

extends

Defines inheritance.

Example:

```
class Dog extends Animal
```

implements

Implements interface.

Example:

```
class Bird implements Flyable
```

abstract

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Defines abstract method/class.

Example:

```
abstract class Shape
```

final

Makes member unchangeable.

Example:

```
final int MAX = 100;
```

try/catch/finally

Exception handling.

Example:

```
try {...} catch (...) {...} finally {...}
```

throw/throws

Throws exceptions.

Example:

```
throw new Exception("error");
```

boolean

Defines true/false.

Example:

```
boolean flag = true;
```

switch/case

Multiple conditions.

Example:

```
switch(day) { case 1: ... }
```

Java Keywords - Summary with Examples

package

Defines package name.

Example:

```
package myapp;
```

import

Imports classes.

Example:

```
import java.util.*;
```

instanceof

Checks type.

Example:

```
if (a instanceof Animal)
```

synchronized

Thread-safe block.

Example:

```
synchronized void method()
```

enum

Defines constant set.

Example:

```
enum Days { MON, TUE }
```

assert

Assertion checking.

Example:

```
assert x > 0;
```

Java Keywords - Summary with Examples

native

Calls native method.

Example:

```
native void start();
```

strictfp

Consistent floating-point behavior.

Example:

```
strictfp class Calc
```

transient

Non-serializable.

Example:

```
transient int temp;
```

volatile

Thread-safe variable.

Example:

```
volatile boolean flag;
```

Access Modifiers

public, private, protected, default

Defines accessibility of class members.

Unused

const, goto - reserved but not used in Java.