

Tokens :->

Tokens are the smallest unit of programs, which helps programmer to create instructions. Tokens are classified into two types.

- ① Keywords
- ② Identifiers

① Keywords :

Keywords are compiler aware words called as keywords.

- They have predefined meaning which cannot be altered by programmer.
- All the keywords are written in lower case.
- There are 51+ keywords in java. Keywords cannot be used as any other purpose.
- Eg:- class, public, static, void, etc.

② Identifiers :

- Identifiers are the names given by the programmers to the members of java. Such as class name, method name, variable name, package, interface name, etc are known as identifiers.

Rules For Naming Identifiers :->

Note: Rules are mandatory to follow. If not followed then compile time error will occur.

• Rule No. 1: An identifier cannot start with a number.

Eg: 1Program X.

Program1 ✓

Pro1gram ✓

• Rule No. 2: character spaces are not allowed while naming identifier.

• Rule No. 3: Special characters other than '\$' & '-' are not allowed.

Imp → • As of release 9, '-' is a keyword, and may not be used as an identifier.

• Eg: → ❌ class \$ ✓

class - ✗ until JDK 9 is right after that it is not valid

• \$ is also used to replace space " ".

• Rule No. 4: keywords cannot be used as identifiers

Conventions: → ^{Industry}

• conventions are the standards followed by programmers.

• Note: conventions are not mandatory to follow but they highly recommended to follow.

• conventions are not checked by the compiler. If not followed we don't get any compiler time error.

~~main~~
main → It is a identifier not a keywords.

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Conventions for class Name & Interface Name:

case 1: If class name or interface name is single word then first character of the word must be in uppercase.

case 2: If class name or interface have multiple words then every first character of the word must be written in upper case.

Eg: MyFirstProgram.

This type of writing name is called as Pascal case.

Conventions for Method Name & variable Names:→

case 1: If method name or variable name is single word then all the characters must be written in lower case.

Eg: int sum, main, display, main()

case 2: If the method name or variable name has multiple words. The first character of first word must be written in lower case, from the second ^{word} every first character must be written in upper case.

This style is known as camel case.