

CORE JAVA

JAVA IDENTIFIERS-

In Java, an identifier is a name given to a variable, method, class, or any other user-defined items.

Identifiers are used to uniquely identify these entities within the program.

Here are the key points about identifiers in Java:

1. Naming Rules:

- Identifiers can consist of letters (both uppercase and lowercase), digits (0-9), underscores (_), and dollar signs (\$).
- The first character of an identifier cannot be a digit.
- Identifiers are case-sensitive. For example, FirstVariable and firstVariable are considered different identifiers.
- Keywords (Reserved words) in Java cannot be used as identifiers. For example, int, boolean, class, public, etc., cannot be used as names for variables or methods.

2. Examples of Valid Identifiers:

- myVariable
- MyVariable
- variable123
- _temp
- \$price
- hello
- first_variable

3. Examples of Invalid Identifiers:

- 123variable (cannot start with a digit)
- first variable (space not allowed)
- my-variable (hyphens are not allowed)

- class (reserved keyword)

4. Best Practices:

- Use meaningful names to make your code more readable and maintainable. For example, `employeeName` is more descriptive than `en`.
- Follow naming conventions, such as camelCase for variables and methods (e.g., `myVariable`, `calculateSum`), PascalCase for classes (e.g., `MyClass`, `FirstClass`, `CustomerManager`), and uppercase letters with underscores for constants (e.g., `MAX_VALUE`, `PI`, `MIN_VALUE`).

EXAMPLE-

IdentifierExample - Notepad
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```
public class IdentifierExample{
    public static void main(String args[])
    {
        int first_variable=10;
        float variable1=1.5f;
        float variable2=2.5f;
        int hello=1;
        int _temp=10;
        int $price=1200;

        System.out.println(first_variable);
        System.out.println(variable1);
        System.out.println(variable2);
        System.out.println(hello);
        System.out.println(_temp);
        System.out.println($price);
    }
}
```

OUTPUT-

```
C:\Users\LENOVO\Documents\java_practical>java IdentifierExample
10
1.5
2.5
1
10
1200
```

If you use a name that is not allowed like - 1variable (starting with a digit), when you compile your program, you will get an error.

IdentifierExample - Notepad

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```
public class IdentifierExample{
    public static void main(String args[])
    {
        int 1variable=10;
        System.out.println(1variable);
    }
}
```

ERROR-

```
C:\Users\LENOVO\Documents\java_practical>javac IdentifierExample.java
IdentifierExample.java:4: error: not a statement
        int 1variable=10;
        ^
IdentifierExample.java:4: error: ';' expected
        int 1variable=10;
        ^
IdentifierExample.java:5: error: ')' or ',' expected
        System.out.println(1variable);
                           ^
IdentifierExample.java:5: error: ';' expected
        System.out.println(1variable);
                           ^
4 errors
```

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