

Data Types

Primitive Data Types

Type	Size	Range of values
boolean	1 bit	true, false
char	2 byte	'\u0000' to '\uffff'
byte	1 byte	-128 to 127
short	2 byte	-32,768 to 32,767
int	4 byte	-2,147,483,648 to 2,147,483,647
long	8 byte	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807
float	4 byte	32-bit floating point
double	8 byte	64-bit floating point

Non-Primitive Data Types

String	It is a sequence of characters
Class	It is a user defined data type from which objects are created
Object	It is an instance of a class representing real-life entities
Interface	It is similar to class but contains abstract methods by default
Array	It holds elements of similar data types

Classes and Objects

```
class Dog {
    String name;
    int age;

    public void info() {
        System.out.println("His name is " + this.name + " years old");
    }
}

public class Main {
    public static void main(String[] args) {
        // Creating an object from the Dog class
        Dog myDog = new Dog();
        // Assigning values
        myDog.name = "Tommy";
        myDog.age = 3;
        // calling the method
        myDog.info(); // output: Tommy
    }
}
```

Comments

Single Line Comment

```
// this is a single line comment
```

Multiline Comment

```
/* This is a multiline comment */
```

Basic Program Structure

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



Primitive Types

```
public class Main {
    public static void main(String[] args) {
        int a = 10;
        System.out.println(a); // 10
        double b = 1021.0121;
        System.out.println(b); //
1021.0121
        float c = 11.001f;
        System.out.println(c); //
11.001
        boolean d = true;
        System.out.println(d); // true
        char e = 'P';
        System.out.println(e); // P
        String f = " Learning Java";
        System.out.println(f); //
Learning Java
    }
}
```

Classes and Object Theory

A class in java is a user-defined data type. It is declared with the `class` keyword. It can have properties and methods.

Here in the example `name` and the `age` is the property and `info()` is the method.

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