

Java example covering int, byte, float, double, long, String, array, and class, with the expected output and how to save/run it.

1. Complete Java Example

Save this as `DataTypesExample.java`:

```
public class DataTypesExample {

    public static void main(String[] args) {

        // Integer
        int age = 25;

        // Byte
        byte marks = 100;

        // Float
        float height = 5.8f;

        // Double
        double price = 1250.75;

        // Long
        long population = 1400000000L;

        // String
        String name = "Rahul";

        // Array
        int[] numbers = {10, 20, 30, 40, 50};

        // Printing values
        System.out.println("Name: " + name);
        System.out.println("Age: " + age);
        System.out.println("Marks: " + marks);
        System.out.println("Height: " + height);
        System.out.println("Price: " + price);
        System.out.println("Population: " + population);

        System.out.println("Array values:");

        for (int number : numbers) {
            System.out.println(number);
        }

        // Creating an object of a class
        Student student = new Student("Amit", 20);

        System.out.println("Student Name: " + student.studentName);
        System.out.println("Student Age: " + student.studentAge);
    }
}
```

```
// A simple class
class Student {

    String studentName;
    int studentAge;

    Student(String name, int age) {
        studentName = name;
        studentAge = age;
    }
}
```

2. Output

When you run the program, you should see:

```
Name: Rahul
Age: 25
Marks: 100
Height: 5.8
Price: 1250.75
Population: 1400000000
Array values:
10
20
30
40
50
Student Name: Amit
Student Age: 20
```

3. What each data type means

Data type	Example	Meaning
int	int age = 25;	Whole numbers
byte	byte marks = 100;	Small whole numbers
float	float height = 5.8f;	Decimal numbers
double	double price = 1250.75;	More precise decimal numbers
long	long population = 1400000000L;	Very large whole numbers
String	String name = "Rahul";	Text
array	int[] numbers = {10,20,30};	Multiple values
class	class Student { }	Blueprint for creating objects

How to save the Java file

If you are using **Windows Notepad**:

1. Open **Notepad**.
2. Copy the Java program above.
3. Click **File** → **Save As**.
4. Enter:

`DataTypesExample.java`

5. For **Save as type**, select **All Files**.
6. Save it somewhere easy, such as your Desktop.
7. Make sure the file ends in `.java`