

### J Calculator.java

```
1 import java.util.Scanner;
2
3 public class calculator {
4
5     // static variable (shared among all objects)
6     static double pi = 3.14159;
7
8     public static double getPi() {
9         return pi;
10    }
11
12     // instance variable (object-level)
13     int instanceCount = 1;
14
15
16     public static void main(String[] args) {
17
18         // local variables (method-level)
19         byte b = 10;           // 1 byte
20         short s = 100;         // 2 bytes
21         int i = 1000;          // 4 bytes
22         long l = 10000L;        // 8 bytes
23         float f = 10.5f;        // 4 bytes
24         double d = 20.99;       // 8 bytes
25         char c = 'A';          // 2 bytes
26         boolean flag = true;    // 1 bit (logical)
27
28         // Explanation output
29         System.out.println("Primitive Data Types Initialized:");
30         System.out.println("byte: " + b);
```

### RECENT SESSIONS

- @workspace /ex  
Completed

Show

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### SUGGESTED ACTION

Build Workspace

 + J Calculator

Describe what to l

Agent ▾ Auto ▾

Ln 92, Col 1 Spaces: 4 UTF-8 LF { } Java ⚙ (↻) Go!



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sorting.py      Hellow      J HelloWorld.java      J Calculator.java      J calculator.class X      ▶      ⚡      ...      CHAT      RECEIVED      @      Co      A      C      O      SUGGESTIONS      BUILD      DESKTOP      AGENDA      Java: Ready      Ln 22, Col 23      Spaces: 3      { } Java
```

24 System.out.println("Primitive Data Types Initialized:");  
25 System.out.println("byte: " + var1);  
26 System.out.println("short: " + var2);  
27 System.out.println("int: " + var3);  
28 System.out.println("long: " + var4);  
29 System.out.println("float: " + var6);  
30 System.out.println("double: " + var7);  
31 System.out.println("char: " + var9);  
32 System.out.println("boolean: " + var10);  
33 Scanner var11 = new Scanner(System.in);  
34  
35 try {  
36 System.out.print("\nEnter first number: ");  
37 double var12 = var11.nextDouble();  
38 System.out.print("Enter second number: ");  
39 double var14 = var11.nextDouble();  
40 System.out.print("Choose operation (+ - \* /): ");  
41 char var16 = var11.next().charAt(0);  
42 double var17 = 0.0;  
43 boolean var19 = true;  
44 switch (var16) {  
45 case '\*':  
46 var17 = var12 \* var14;  
47 break;  
48 case '+':  
49 var17 = var12 + var14;  
50 break;  
51 case ',':  
52 case '.':  
53 default:  
54 System.out.println("Invalid operation selected.");

```
sorting.py      Hellow      HelloWorld.java      Calculator.java      calculator.class X D C ... CHA
54             System.out.println("Invalid operation selected.");
55             var19 = false;
56             break;
57         case '-':
58             var17 = var12 - var14;
59             break;
60         case '/':
61             if (var14 != 0.0) {
62                 var17 = var12 / var14;
63             } else {
64                 System.out.println("Error: Division by zero not allowed.");
65                 var19 = false;
66             }
67         }
68
69         if (var19) {
70             System.out.printf("Result: %.2f\n", var17);
71         }
72
73         int var20 = (int)var7;
74         double var21 = (double)var3;
75         System.out.println("\nType Casting:");
76         System.out.println("Double to int: " + var20);
77         System.out.println("Int to double: " + var21);
78     } catch (Throwable var24) {
79         try {
80             var11.close();
81         } catch (Throwable var23) {
82             var24.addSuppressed(var23);
83         }
84     }

```

Java: Ready      Ln 22, Col 23    Spaces: 3    {} Java



sorting.py

Hellow

J HelloWorld.java

J Calculator.java

J calculator.class X

```
84
85         throw var24;
86     }
87
88     var11.close();
89 }
90
91     public int getInstanceCount() {
92         return this.instanceCount;
93     }
94 }
95 }
```

ed. Java: Ready

Ln 22, Col 23 Spaces



Search

