

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     public static void main(String[] args) {
16
17         // local variables (method-level)
18         byte b = 10;           // 1 byte
19         short s = 100;         // 2 bytes
20         int i = 1000;          // 4 bytes
21         long l = 10000L;       // 8 bytes
22         float f = 10.5f;       // 4 bytes
23         double d = 20.99;      // 8 bytes
24         char c = 'A';          // 2 bytes
25         boolean flag = true;   // 1 bit (logical)
26
27         // Explanation output
28         System.out.println("Primitive Data Types Initialized:");
29         System.out.println("byte: " + b);
```

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```
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.");

```

Java: ReadyLn 22, Col 23Spaces: 3{ } Java

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```
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: ReadyLn 22, Col 23Spaces: 3{ } Java

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throw var24;

}

var11.close();

}

public int getInstanceCount() {

return this.instanceCount;

}

}

ed. Java: ReadyLn 22, Col 23Spaces

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