

**UserInput.java**

```
1 // Name: Rupankar Das
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3 // Batch: Class of 2027 | B.Tech AIML | B2
4
5 import java.util.Scanner;
6
7 public class UserInput {
8     private Scanner scanner;
9
10    public UserInput(Scanner scanner) {
11        this.scanner = scanner; // Initialize scanner
12    }
13
14    public int getNumberInput() {
15        System.out.print("Enter an integer: ");
16        return scanner.nextInt(); // Read and return an integer
17    }
18
19    public double getDoubleInput() {
20        System.out.print("Enter a number: ");
21        return scanner.nextDouble(); // Read and return a double
22    }
23
24    public double[] getArrayInput(int size) {
25        double[] array = new double[size];
26        System.out.println("Enter " + size + " numbers:");
27        for (int i = 0; i < size; i++) {
28            array[i] = scanner.nextDouble(); // Read and store each double
29        }
30        return array; // Return the array of doubles
31    }
32
33    public int[] getIntArrayInput(int size) {
34        int[] array = new int[size];
35        System.out.println("Enter " + size + " integers:");
36        for (int i = 0; i < size; i++) {
37            array[i] = scanner.nextInt(); // Read and store each integer
38        }
39        return array; // Return the array of integers
40    }
41 }
42
```