

# Question1

## Main.java

```
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        //create a scanner to get User's input
        Scanner scanner = new Scanner(System.in);

        //Ask User to set array's size
        System.out.println("Please Enter Array's Size:");
        int size = scanner.nextInt();

        //create array whose type is double and size is equal to user's input
        double[] array = new double[size];

        // Use a for loop to populate the array with user input
        for(int i=0;i<size;i++){
            System.out.println("Please Enter No. "+(i+1)+" Number:");
            array[i]=scanner.nextDouble();
        }

        // Close the scanner
        scanner.close();

        // Use a for loop to calculate sum and display array contents
        double sum = 0.0;
        System.out.print("Numbers in Array: ");
        for (int i = 0; i < size; i++) {
            System.out.print(array[i]);
            if (i < size - 1) {
                System.out.print(", ");
            }
            // Calculate the sum of the array
            sum += array[i];
        }
        System.out.println("]");

        //display sum of the array
        System.out.println("Sum of the array: " + sum);
    }
}
```

```
"C:\Program Files\Java\jdk1.8.0_231\bin\java.exe" ...
```

```
Please Enter Array's Size:
```

```
5
```

```
Please Enter No.1 Number:
```

```
2.1
```

```
Please Enter No.2 Number:
```

```
2
```

```
Please Enter No.3 Number:
```

```
3
```

```
Please Enter No.4 Number:
```

```
4
```

```
Please Enter No.5 Number:
```

```
5
```

```
Numbers in Array: [2.1, 2.0, 3.0, 4.0, 5.0]
```

```
Sum of the array: 16.1
```

```
Process finished with exit code 0
```