Array

Assigment-1

```
package Arrays;
                     import java.util.Scanner;
                    public class SumAndAverage {
             public static void main(String[] args) {
             Scanner scanner = new Scanner(System.in);
System.out.print("Enter the number of elements in the array: ");
                     int n = scanner.nextInt();
                       int[] arr = new int[n];
      System.out.println("Enter the elements of the array:");
                    for (int i = 0; i < n; i++)</pre>
                     arr[i] = scanner.nextInt();
                                  }
                            int sum = 0;
                       for (int num : arr) {
                             sum += num;
                                  }
                 double average = (double) sum / n;
         System.out.println("Sum of the elements: " + sum);
     System.out.println("Average of the elements: " + average);
                          scanner.close();
                                 }
                              Output
```

```
Enter
                 the number of elements
                                          in the array: 5
                 Enter the elements of the array:
                          22 34 54 66 28
                     Sum of the elements: 204
                  Average of the elements: 40.8
                          Assigment-2
                          package Arrays;
                    import java.util.Scanner;
                    public class BubbleSort {
             public static void main(String[] args) {
            Scanner scanner = new Scanner(System.in);
            // Get the size of the array from the user
System.out.print("Enter the number of elements in the array: ");
                    int n = scanner.nextInt();
                   // Create an array of size n
                      int[] arr = new int[n];
          // Get the elements of the array from the user
     System.out.println("Enter the elements of the array:");
                  for (int i = 0; i < n; i++) {
                   arr[i] = scanner.nextInt();
               // Sort the array using bubble sort
                for (int i = 0; i < n - 1; i++) {</pre>
               for (int j = 0; j < n - i - 1; j++)</pre>
                     {
if (arr[j] > arr[j + 1])
{
                   // Swap arr[j] and arr[j+1]
```

Output

```
Enter the number of elements in the array: 6
Enter the elements of the array:

21 23 43 37 65 38

Sorted array:

21 23 37 38 43 65
```