Lab:5

1. import java.util.Scanner;

```
public class SumAverage {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter number of elements: ");
    int n = sc.nextInt();
    int[] arr = new int[n];
    int sum = 0;
    System.out.println("Enter " + n + " numbers:");
    for (int i = 0; i < n; i++) {
      arr[i] = sc.nextInt();
      sum += arr[i];
    }
    double average = (double) sum / n;
   System.out.println("Sum: " + sum);
    System.out.println("Average: " + average);
  }
}
```

```
3. import java.util.Scanner;
 public class MarksGrader {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter number of students: ");
    int n = sc.nextInt();
    int[] marks = new int[n];
    int sum = 0;
    int max = Integer.MIN VALUE;
    System.out.println("Enter marks of " + n + " students:");
    for (int i = 0; i < n; i++) {
      marks[i] = sc.nextInt();
      sum += marks[i];
      if (marks[i] > max) {
         max = marks[i];
      }
    }
    double avg = (double) sum / n;
    int countAboveAvg = 0;
    for (int mark : marks) {
      if (mark > avg) countAboveAvg++;
    }
     System.out.println("Average marks: " + avg);
    System.out.println("Highest score: " + max);
    System.out.println("Students scoring above average: " + countAboveAvg);
  }
}
```

```
4. import java.util.Scanner;
```

```
public class ProductPriceFilter {
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    int[] prices = new int[10];
    System.out.println("Enter prices of 10 products:");
    for (int i = 0; i < 10; i++) {
       prices[i] = sc.nextInt();
    }
     System.out.println("Products priced above ₹500:");
    for (int price : prices) {
       if (price > 500) {
         System.out.println("₹" + price);
       }
    }
    int min = prices[0], max = prices[0];
    for (int price : prices) {
       if (price < min) min = price;
       if (price > max) max = price;
    }
    System.out.println("Cheapest product: ₹" + min);
    System.out.println("Costliest product: ₹" + max);
  }
}
```