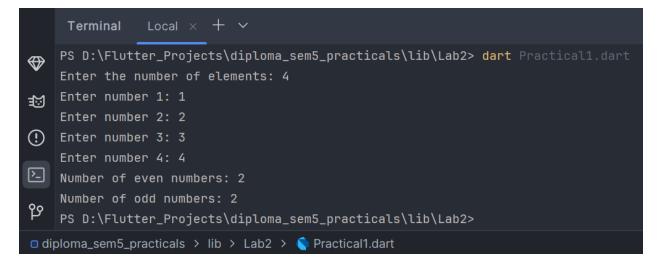


2.1. W.A.P. to count number of even or odd number from an array of n numbers. (A)

Code:

```
import 'dart:io';
void main() {
 stdout.write("Enter the number of elements: ");
 int n = int.parse(stdin.readLineSync()!);
 List<int> numbers = [];
 for (int i = 0; i < n; i++) {
  stdout.write("Enter number ${i + 1}: ");
  int num = int.parse(stdin.readLineSync()!);
  numbers.add(num);
 }
 int evenCount = 0;
 int oddCount = 0;
 for (int i in numbers) {
  if (i % 2 == 0) {
   evenCount++;
  } else {
   oddCount++;
  }
 }
 print("Number of even numbers: $evenCount");
 print("Number of odd numbers: $oddCount");
}
```







2.2. W.A.P. to insert int numbers into List and display in terminal. (A)

Code:

```
import "dart:io";

void main() {
    List<int> lst = [];
    print("enter the number you want to add in list:");
    int n = int.parse(stdin.readLineSync()!);
    for (int i = 0; i < n; i++) {
        print("enter ${i + 1} number:");
        int num = int.parse(stdin.readLineSync()!);
        lst.add(num);
    }
    print("list of number is:$lst");
}</pre>
```

```
Run Practical2.dart ×

C: | flutter/bin/cache/dart-sdk/bin/dart.exe --enable-asserts --no-serve-devtools
D:\Flutter_Projects\diploma_sem5_practicals\lib\Lab2\Practical2.dart
enter the number you want to add in list:
3

enter 1 number:
12
enter 2 number:
13
enter 3 number:
14
list of number is:[12, 13, 14]

Process finished with exit code 0
```



2.3. W.A.P. to insert Strings into List and display in terminal. (A)

Code:

```
import "dart:io";

void main() {
  print("enter the number of Strings you want to enter in list");
  int n = int.parse(stdin.readLineSync()!);
  List<String> lst = [];
  for (int i = 0; i < n; i++) {
    print("enter String ${i + 1}");
    String str = stdin.readLineSync()!;
    lst.add(str);
  }
  print("list of string is:$lst");
}</pre>
```

```
Practical3.dart (1) ×
     Run
     G ■ :
          C:/flutter/bin/cache/dart-sdk/bin/dart.exe --enable-asserts --no-serve-devtools
\triangleright
           D:\Flutter_Projects\diploma_sem5_practicals\lib\Lab2\Practical3.dart
          enter the number of Strings you want to enter in list
          enter String 1
₩
①
          enter String 2
2
          list of string is:[abc, xyz]
প্
          Process finished with exit code 0
□ diploma_sem5_practicals > lib > Lab2 > ◊ Practical3.dart
```

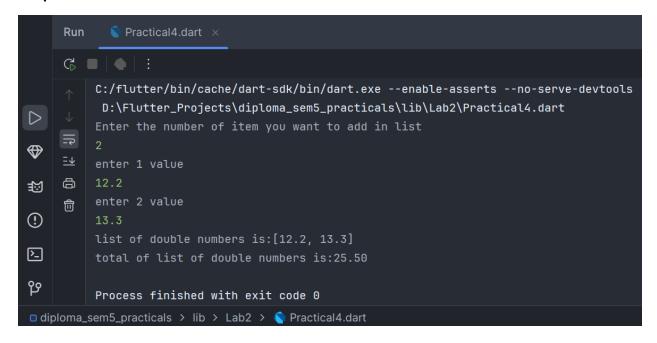


2.4. W.A.P. to insert double into List and display in terminal and do sum of all numbers and print it with 2 decimal only. Ex: Total = 22.39998 => 22.40 (A)

Code:

```
import "dart:io";
void main() {
 print("Enter the number of item you want to add in list ");
 int n = int.parse(stdin.readLineSync()!);
 List<double> lst = [];
 for (int i = 0; i < n; i++) {
  print("enter ${i + 1} value");
  double num = double.parse(stdin.readLineSync()!);
  lst.add(num);
 }
 print("list of double numbers is:$lst");
 double total = 0;
 for (double i in lst) {
  total += i;
 }
 // double ans = lst.reduce((a, b) => a + b);
 print("total of list of double numbers is:${total.toStringAsFixed(2)}");
}
```







```
2.5. W.A.P. to sort values in List. Ex. Input: [13, 2, -11, 142, -389, 0] Result: [-389, -11, 0, 2,
13, 142] (B)
Code:
        import "dart:io";
        void main() {
         print("enter number of element you want to add in list");
         int n = int.parse(stdin.readLineSync()!);
         List<int> lst = [];
         for (int i = 0; i < n; i++) {
          print("enter ${i + 1} value");
          int num = int.parse(stdin.readLineSync()!);
          lst.add(num);
         }
         print("without sorting list:$lst");
         // lst.sort();
         for (int i = 0; i < lst.length - 1; i++) {
          for (int j = 0; j < lst.length - i - 1; j++) {
           if (lst[j] > lst[j + 1]) {
            int temp = lst[j];
            lst[j] = lst[j + 1];
            lst[j + 1] = temp;
           }
          }
         }
         print("After sorting list is:$lst");
        }
```



