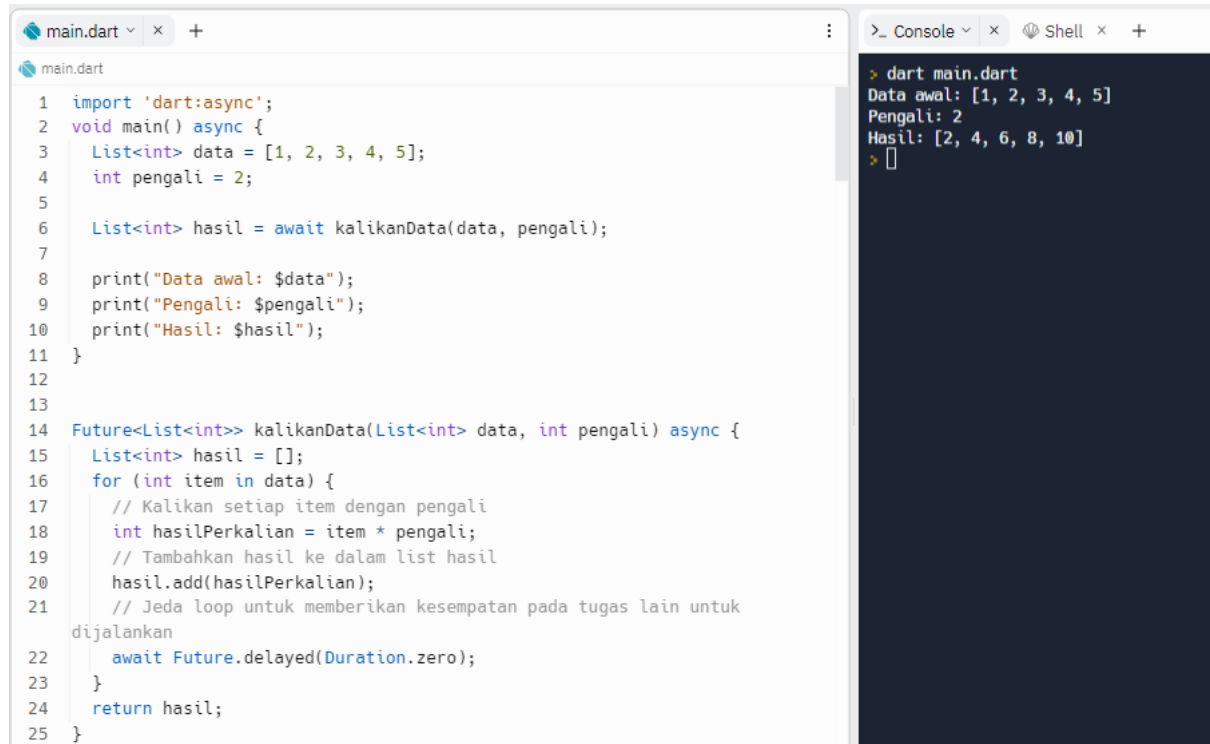


Screenshoot soal prioritas 1

Nomor 1

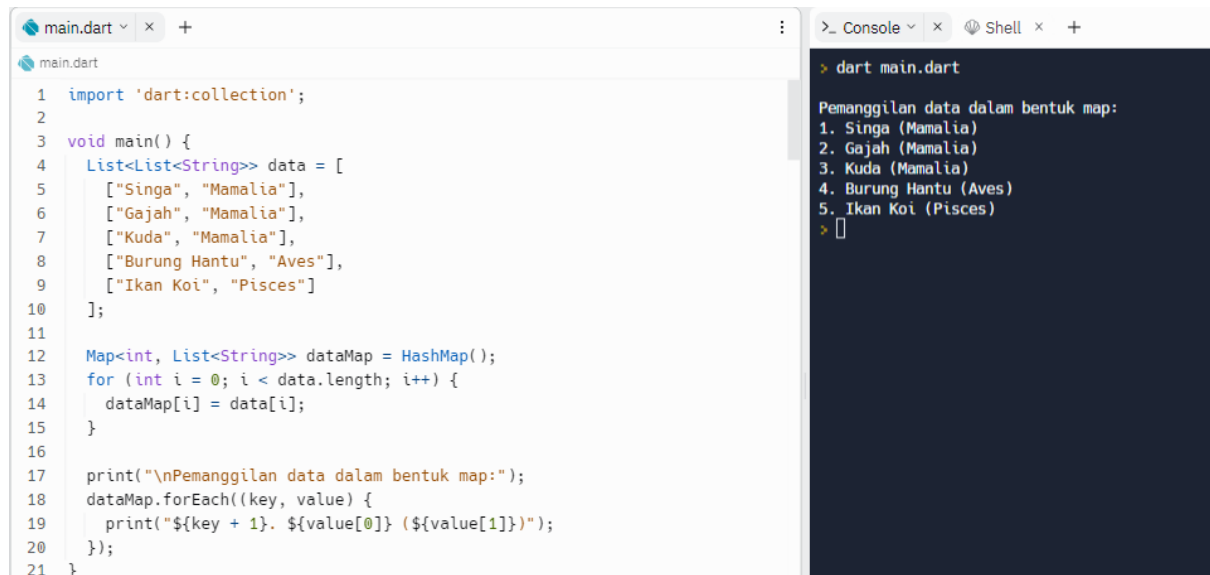


```
main.dart x +
main.dart
1 import 'dart:async';
2 void main() async {
3   List<int> data = [1, 2, 3, 4, 5];
4   int pengali = 2;
5
6   List<int> hasil = await kalikanData(data, pengali);
7
8   print("Data awal: $data");
9   print("Pengali: $pengali");
10  print("Hasil: $hasil");
11 }
12
13
14 Future<List<int>> kalikanData(List<int> data, int pengali) async {
15   List<int> hasil = [];
16   for (int item in data) {
17     // Kalikan setiap item dengan pengali
18     int hasilPerkalian = item * pengali;
19     // Tambahkan hasil ke dalam list hasil
20     hasil.add(hasilPerkalian);
21     // Jeda loop untuk memberikan kesempatan pada tugas lain untuk
    dijalankan
22     await Future.delayed(Duration.zero);
23   }
24   return hasil;
25 }
```

```
>_ Console x Shell x +
> dart main.dart
Data awal: [1, 2, 3, 4, 5]
Pengali: 2
Hasil: [2, 4, 6, 8, 10]
> []
```

Screenshoot soal prioritas 2

Nomor 1



```
main.dart x +
main.dart
1 import 'dart:collection';
2
3 void main() {
4   List<List<String>> data = [
5     ["Singa", "Mamalia"],
6     ["Gajah", "Mamalia"],
7     ["Kuda", "Mamalia"],
8     ["Burung Hantu", "Aves"],
9     ["Ikan Koi", "Pisces"]
10  ];
11
12   Map<int, List<String>> dataMap = HashMap();
13   for (int i = 0; i < data.length; i++) {
14     dataMap[i] = data[i];
15   }
16
17   print("\nPemanggilan data dalam bentuk map:");
18   dataMap.forEach((key, value) {
19     print("${key + 1}. ${value[0]} (${value[1]}");
20   });
21 }
```

```
>_ Console x Shell x +
> dart main.dart
Pemanggilan data dalam bentuk map:
1. Singa (Mamalia)
2. Gajah (Mamalia)
3. Kuda (Mamalia)
4. Burung Hantu (Aves)
5. Ikan Koi (Pisces)
> []
```

Nomor 2

```
main.dart x +
main.dart
1 import 'dart:math';
2
3 void main() {
4   List<int> nilai = [7, 5, 3, 5, 2, 1];
5   int total = 0;
6   for (int i = 0; i < nilai.length; i++) {
7     total += nilai[i];
8   }
9   double rataRata = total / nilai.length;
10  int rataRataBulat = rataRata.ceil();
11  print("Nilai: $nilai");
12  print("Rata-rata (pembulatan ke atas): $rataRataBulat");
13 }
```

```
>_ Console x Shell x +
> dart main.dart
Nilai: [7, 5, 3, 5, 2, 1]
Rata-rata (pembulatan ke atas): 4
> []
```

Nomor 3

```
main.dart x +
main.dart
1 import 'dart:io';
2
3 void main() {
4   stdout.write("Masukkan bilangan bulat: ");
5   int n = int.parse(stdin.readLineSync());
6
7   int hasil = faktorial(n);
8   print("Faktorial dari $n adalah $hasil");
9 }
10
11 int faktorial(int n) {
12   int hasil = 1;
13   for (int i = 2; i <= n; i++) {
14     hasil *= i;
15   }
16   return hasil;
17 }
18
```

```
>_ Console x Shell x +
> dart main.dart
Masukkan bilangan bulat: 5
Faktorial dari 5 adalah 120
> []
```

Screenshoot soal eksplorasi

Nomor 1

```
main.dart x +
main.dart
1 void main() {
2   List<String> data = ["amuse", "tommy kaira", "spoon", "HKS",
3     "litchfield", "amuse", "HKS"];
4   Set<String> dataSet = Set.from(data);
5   List<String> dataUnik = dataSet.toList();
6   print("Sampel Input: $data");
7   print("Sampel Output: $dataUnik");
8 }
```

```
>_ Console x Shell x +
> dart main.dart
Sampel Input: [amuse, tommy kaira, spoon, HKS, litchfield, amuse, HKS]
Sampel Output: [amuse, tommy kaira, spoon, HKS, litchfield]
> []
```

```
main.dart x +
main.dart
1 void main() {
2   List<String> data = ["JS Racing", "amuse", "spoon", "spoon", "JS
3     Racing", "amuse"];
4   Set<String> dataSet = Set.from(data);
5   List<String> dataUnik = dataSet.toList();
6   print("Sampel Input: $data");
7   print("Sampel Output: $dataUnik");
8 }
```

```
>_ Console x Shell x +
> dart main.dart
Sampel Input: [JS Racing, amuse, spoon, spoon, JS Racing, amuse]
Sampel Output: [JS Racing, amuse, spoon]
> []
```

Nomor 2

main.dart

```
1 void main() {
2   List<String> data = ["js", "js", "js", "golang", "python", "js", "js",
   "golang", "rust"];
3   Map<String, int> frekuensi = {};
4   for (int i = 0; i < data.length; i++) {
5     if (frekuensi.containsKey(data[i])) {
6       frekuensi[data[i]] = frekuensi[data[i]]! + 1;
7     } else {
8       frekuensi[data[i]] = 1;
9     }
10  }
11  print("Data: $data");
12  print("Frekuensi: $frekuensi");
13 }
```

_ Console

```
> dart main.dart
Data: [js, js, js, golang, python, js, js, golang, rust]
Frekuensi: {js: 5, golang: 2, python: 1, rust: 1}
>
```