Nama : Aditia Surya Putra

Kelas : Flutter D

Soal 1

```dart
import 'package:dio/dio.dart';

// Run | Debug | Profile
void main() async {
  Dio dio = Dio();

  try {
    // Mengirimkan data contact dengan POST request
    Response response = await dio.post(
      "https://my-json-server.typicode.com/hadihammurabi/flutter-webservice/contacts",
      data: {
        "name": "Johan Doe",
        "phone": "555-1234",
        "email": "john.doe@example.com",
      },
    );

    // Menampilkan response dari server
    print(response.data);
  } catch (e) {
    print(e.toString());
  }
}
```

Soal 2

```dart
//Membuat class contact
class Contact {
  int? id;
  String? name;

  String? phone;

  Contact({this.id, this.name, this.phone});
//mengubah json ke bentuk map
  factory Contact.fromJson(Map<String, dynamic> json) {
    return Contact(
      id: json['id'],
      name: json['name'],
      phone: json['phone'],
    );
  }
}
Dio dio = Dio();
/// Fungsi getContact untuk request data contact
Future<Contact> getContact() async {
  try {
    Response response = await dio.get('https://my-json-server.typicode.com/hadihammurabi/flutter-webservice/contacts/2');
    return Contact.fromJson(response.data);
  } catch (e) {
    print(e);
    return Contact();
  }
}
//memanggil object di fungsi main
// Run | Debug | Profile
Future<void> main() async {
  Contact contact = await getContact();
  print("id    : ${contact.id}");
  print("name : ${contact.name}");
  print("phone: ${contact.phone}");
}
```

Soal 3

```dart
import 'dart:convert';
import 'package:dio/dio.dart';

void main() async {
  try {
    Dio dio = new Dio();
    dio.options.headers['body'] = 'application/json';
    //membuat map yang akan di akan dimasukan ke api menggunakan put
    Map<String, dynamic> requestBody = {
      "id": 1,
      "title": "foo",
      "body": "bar",
      "userId": 1
    };
    //Membuat fungsi put
    Response response = await dio.put(
      'https://jsonplaceholder.typicode.com/posts/1',
      data: json.encode(requestBody),
    );

    print(response.data);
  } catch (e) {
    print(e.toString());
  }
}
```

Output :

Soal 1

PROBLEMS 13   OUTPUT   TERMINAL   DEBUG CONSOLE

[Running] dart "d:\git\flutter_aditia-surya-putra\25_Introduction REST API - JSON
{name: Johan Doe, phone: 555-1234, email: john.doe@example.com, id: 4}

[Done] exited with code=0 in 9.736 seconds

Soal 2

[Running] dart "d:\git\flutter_aditia-surya-putra\25_Introduction REST API - JSON serialization
id   : 2
name : John Thor
phone: 0857676565688

Soal 3

[Running] dart "d:\git\flutter_aditia-surya-putra\25_Introduction
{id: 1, title: foo, body: bar, userId: 1}

[Done] exited with code=0 in 8.645 seconds