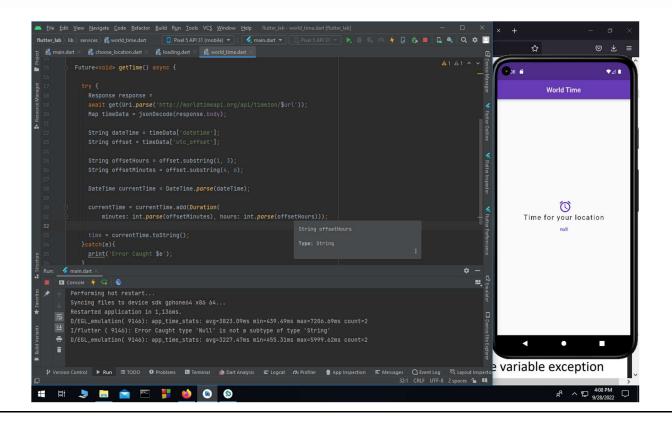
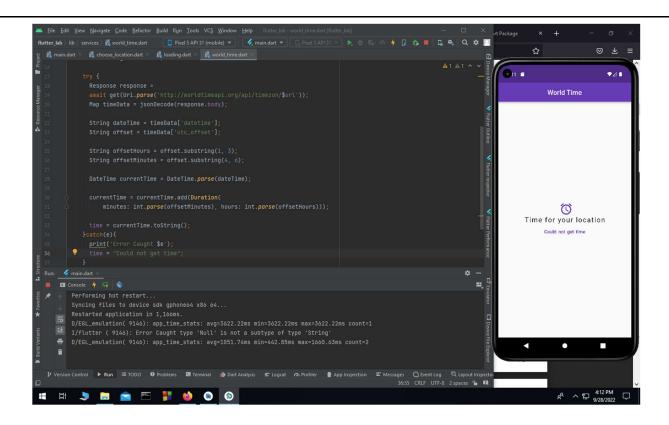
NAME : Faizan Vora ROLL NO : CE157 ID : 20CEUOS020

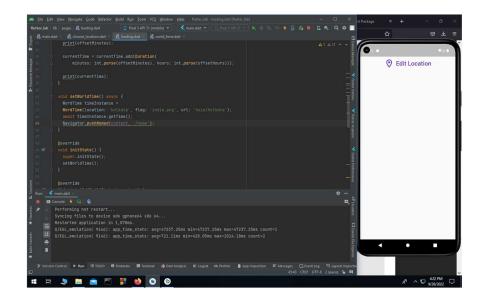
DateFormat Class:

- DateFormat is for formatting and parsing dates in a locale-sensitive manner.
- It allows the user to choose from a set of standard date time formats as well as specify a
 customized pattern under certain locales. Date elements that vary across locales include
 month name, week name, field order, etc. We also allow the user to use any customized
 pattern to parse or format date-time strings under certain locales. Date elements that vary
 across locales include month name, weekname, field, order, etc.





Navigate to home page after getting timeinstance:



```
| Bit | Eat | New | Manager | Code | Befactor | Rold | Run | Tools | VC | Woodow | Boy | Butter | Butt
```

Home.dart:

```
| Text Got Yow | Norman | Section |
```

SpinKit:

• Spinkit is a collection of loading indicators animated with flutter. It has huge animated loading indicators which are basically used when we are loading something.

```
### Size Sol Wew Namigate Code Eductor Duid Run Iook VCS Window Help Nutracylab Isolong-dard (Notice Code)

**Thatter bit Not pages & debose becations and a second second
```

Home.dart

```
import 'package:flutter/material.dart';

class Home extends StatefulWidget {
  const Home({Key? key}) : super(key: key);

  @override
  State<Home> createState() => _HomeState();
}
```

```
class HomeState extends State<Home> {
 Map<dynamic, dynamic> data = {};
  @override
  Widget build(BuildContext context) {
    data = ModalRoute.of(context)?.settings.arguments as Map;
   print(data);
    return Scaffold(
      body: SafeArea(
        child: Center (
          child: Padding (
            padding: const EdgeInsets.fromLTRB(0,120,0,0),
            child: Column (
              children: [
                TextButton.icon(
                  onPressed: ()
                    Navigator.pushNamed(context, '/location');
                  icon: const Icon(Icons.location on outlined, size: 40, color:
Colors.deepPurple,),
                  label:const Text("Edit Location", style: TextStyle(fontSize:
25, color: Colors.deepPurple),),
                ),
                const SizedBox(
                  height: 24,
                ),
                  mainAxisAlignment: MainAxisAlignment.center,
                  children: [
                    Text(data['location'], style: const TextStyle(letterSpacing:
3, fontSize: 25, color: Colors.deepPurple, fontWeight: FontWeight.bold),)
                  ],
```

```
),
                   const SizedBox(height: 24,)
                   ,Text(data['time'],style: const TextStyle(fontSize: 40),)
                ],
              ),
           ),
         )
       ),
    );
  }
Main.dart:
void main() => runApp(MaterialApp(
      debugShowCheckedModeBanner: false,
      // initialRoute: '/home',
      initialRoute: '/',
      routes: {
        '/': (context) => const Loading(),
        '/home': (context) => const Home(),
        '/location': (context) => const ChooseLocation(),
      },
    ));
Loading.dart
import 'dart:convert';
import 'package:flutter/material.dart';
import 'package:flutter lab/services/world time.dart';
import 'package:http/http.dart';
import 'package:flutter spinkit/flutter spinkit.dart';
class Loading extends StatefulWidget {
 const Loading({Key? key}) : super(key: key);
```

```
@override
 State<Loading> createState() => _LoadingState();
class LoadingState extends State<Loading> {
 void getTime() async {
   final response = await get(
       Uri.parse("http://worldtimeapi.org/api/timezone/Asia/Kolkata"));
   print(response.body);
   Map timeData = jsonDecode(response.body);
   print(timeData);
   String dateTime = timeData['datetime'];
   String offset = timeData['utc_offset'];
   print(dateTime);
   print(offset);
   DateTime currentTime = DateTime.parse(dateTime);
   print(currentTime);
   String offsetHours = offset.substring(1, 3);
   print(offsetHours);
   String offsetMinutes = offset.substring(4, 6);
   print(offsetMinutes);
   currentTime = currentTime.add(Duration(
       minutes: int.parse(offsetMinutes), hours: int.parse(offsetHours)));
   print(currentTime);
 }
 void setWorldTime() async {
   WordTime timeInstance =
   WordTime(location: 'kolkata', flag: 'india.png', url: 'Asia/Kolkata');
   await timeInstance.getTime();
   // Navigator.pushNamed(context, '/home',arguments: {
   // 'location' : timeInstance.location,
       'flag' : timeInstance.flag,
       'time' : timeInstance.time
   // });
 }
```

```
@override
void initState() {
 super.initState();
 setWorldTime();
}
@override
Widget build(BuildContext context) {
 return const Scaffold(
   // appBar: AppBar(
   //
   // backgroundColor: Colors.deepPurple,
   // title: const Text('World Time'),
   // centerTitle: true,
   //),
   // body: Center(
   // child: Column(
   //
         mainAxisAlignment: MainAxisAlignment.center,
   //
         children: [
   //
           IconButton (
   //
                onPressed: () {},
   //
                icon: const Icon(
   //
                  Icons.alarm,
   //
                 color: Colors.deepPurple,
   //
                  size: 40,
   //
                )),
   //
            const Text("Time for your location",
                style: TextStyle(fontSize: 20, letterSpacing: 2)),
   //
   //
            TextButton (
   //
              child:const SpinKitRotatingCircle(
   //
                color: Colors.white,
   //
                size: 50.0,
   //
             ),
              onPressed: () {},
   //
   //
           ),
   //
         ],
   // ),
   backgroundColor: Colors.black,
   body:Center(
     child: SpinKitPouringHourGlass (
       color: Colors.white,
```

```
size: 80.0,
        ),
     ),
    );
  }
World_time.dart
// ignore_for_file: public_member_api_docs, sort_constructors_first
import 'dart:convert';
import 'package:flutter/scheduler.dart';
import 'package:http/http.dart';
import 'package:intl/intl.dart';
class WordTime {
 String? location;
  String? time;
  String? flag;
  String? url;
  WordTime({this.location, this.flag, this.url});
  Future<void> getTime() async {
    try {
      Response response =
      await get(Uri.parse('http://worldtimeapi.org/api/timezone/$url'));
      Map timeData = jsonDecode(response.body);
      String dateTime = timeData['datetime'];
      String offset = timeData['utc_offset'];
      String offsetHours = offset.substring(1, 3);
      String offsetMinutes = offset.substring(4, 6);
      DateTime currentTime = DateTime.parse(dateTime);
      currentTime = currentTime.add(Duration(
          minutes: int.parse(offsetMinutes), hours: int.parse(offsetHours)));
      // time = currentTime.toString();
      time = DateFormat.jm().format(currentTime);
```

```
}catch(e) {
    print('Error Caught Se');
    time = "Could not get time";
    }
}
```