**Task 1: Splash Screen with Welcome Message**

**Objective:**

**Design and implement a Splash Screen in Flutter.**

**Display a welcome message dynamically.**

**Task: Develop an Animated Splash Screen**

**Create a Splash Screen that:**

**✅ Displays an app logo.**

**✅ Shows a welcome message.**

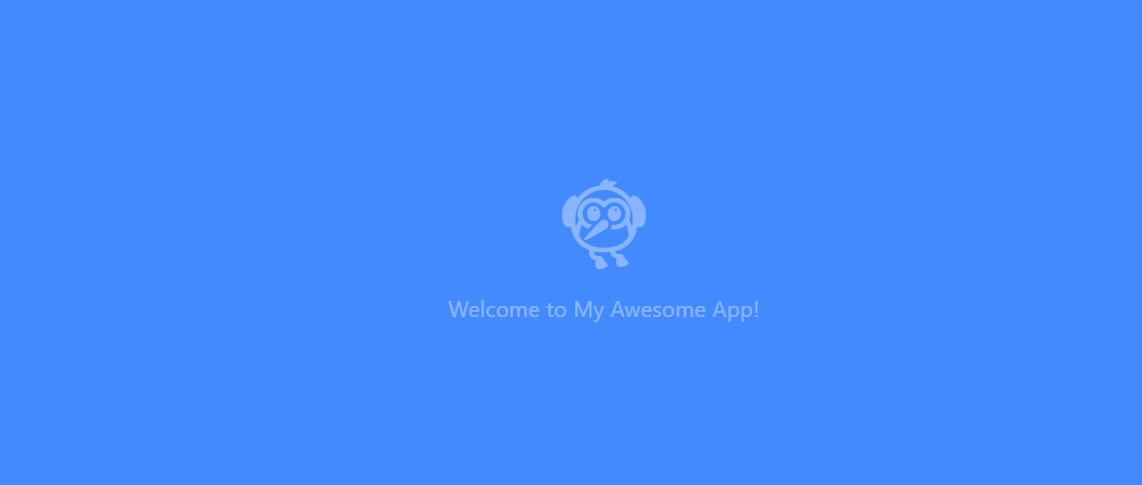
**✅ Automatically navigates to the Main Screen after 4 seconds.**

**✅ Provides a personal introduction on the second screen.**

**MAIN.DART:**

| **import 'package:flutter/material.dart';**  **import 'dart:async';**  **void main() {**  **runApp(MyApp());**  **}**  **class MyApp extends StatelessWidget {**  **@override**  **Widget build(BuildContext context) {**  **return MaterialApp(**  **title: 'Splash Screen Demo',**  **debugShowCheckedModeBanner: false,**  **home: SplashScreen(),**  **);**  **}**  **}**  **// Splash Screen with logo, welcome text, and timer**  **class SplashScreen extends StatefulWidget {**  **@override**  **\_SplashScreenState createState() => \_SplashScreenState();**  **}**  **class \_SplashScreenState extends State<SplashScreen>**  **with SingleTickerProviderStateMixin {**  **late AnimationController \_controller;**  **late Animation<double> \_fadeAnimation;**  **@override**  **void initState() {**  **super.initState();**  **// Animation setup**  **\_controller =**  **AnimationController(vsync: this, duration: Duration(seconds: 2));**  **\_fadeAnimation = Tween<double>(begin: 0, end: 1).animate(\_controller);**  **\_controller.forward();**  **// Navigate after 4 seconds**  **Timer(Duration(seconds: 4), () {**  **Navigator.of(context).pushReplacement(**  **MaterialPageRoute(builder: (\_) => MainScreen()),**  **);**  **});**  **}**  **@override**  **void dispose() {**  **\_controller.dispose();**  **super.dispose();**  **}**  **@override**  **Widget build(BuildContext context) {**  **return Scaffold(**  **backgroundColor: Colors.blueAccent,**  **body: Center(**  **child: FadeTransition(**  **opacity: \_fadeAnimation,**  **child: Column(**  **mainAxisSize: MainAxisSize.min,**  **children: [**  **Icon(Icons.flutter\_dash, size: 100, color: Colors.white),**  **SizedBox(height: 20),**  **Text(**  **'Welcome to My Awesome App!',**  **style: TextStyle(fontSize: 22, color: Colors.white),**  **),**  **],**  **),**  **),**  **),**  **);**  **}**  **}**  **// Main screen with personal introduction**  **class MainScreen extends StatelessWidget {**  **@override**  **Widget build(BuildContext context) {**  **return Scaffold(**  **appBar: AppBar(title: Text('Main Screen')),**  **body: Center(**  **child: Text(**  **'Hi, I’m John Doe.\nI’m a Flutter Developer!',**  **textAlign: TextAlign.center,**  **style: TextStyle(fontSize: 24),**  **),**  **),**  **);**  **}**  **}** |
| --- |

**OUTPUT:**

****

****

**Task 2:**

Create a simple Flutter app that demonstrates passing data between two screens. The app should have a form on the first screen where users can enter their name and age. Upon submitting, it should navigate to the second screen and display a personalized message with the entered details.

**Requirements**

1. Screen 1 - InputScreen

* A TextField for the user’s name.
* A TextField for the user’s age.
* A RaisedButton or ElevatedButton to submit and navigate to the next screen.

2. Screen 2 - DisplayScreen

* Displays a greeting message like "Hello [Name], you are [Age] years old!"

Main.dart:

| import 'package:flutter/material.dart';  void main() {  runApp(MyApp());  }  // Root widget  class MyApp extends StatelessWidget {  @override  Widget build(BuildContext context) {  return MaterialApp(  title: 'Data Passing Demo',  home: InputScreen(),  );  }  }  // Screen 1: InputScreen  class InputScreen extends StatefulWidget {  @override  \_InputScreenState createState() => \_InputScreenState();  }  class \_InputScreenState extends State<InputScreen> {  final TextEditingController \_nameController = TextEditingController();  final TextEditingController \_ageController = TextEditingController();  void \_submitData() {  String name = \_nameController.text.trim();  String age = \_ageController.text.trim();  if (name.isNotEmpty && age.isNotEmpty) {  Navigator.push(  context,  MaterialPageRoute(  builder: (context) => DisplayScreen(name: name, age: age),  ),  );  } else {  ScaffoldMessenger.of(context).showSnackBar(  SnackBar(content: Text('Please enter both name and age')),  );  }  }  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(title: Text('Input Screen')),  body: Padding(  padding: const EdgeInsets.all(16.0),  child: Column(  children: [  TextField(  controller: \_nameController,  decoration: InputDecoration(labelText: 'Enter your name'),  ),  TextField(  controller: \_ageController,  decoration: InputDecoration(labelText: 'Enter your age'),  keyboardType: TextInputType.number,  ),  SizedBox(height: 20),  ElevatedButton(  onPressed: \_submitData,  child: Text('Submit'),  ),  ],  ),  ),  );  }  }  // Screen 2: DisplayScreen  class DisplayScreen extends StatelessWidget {  final String name;  final String age;  DisplayScreen({required this.name, required this.age});  @override  Widget build(BuildContext context) {  return Scaffold(  appBar: AppBar(title: Text('Display Screen')),  body: Center(  child: Text(  'Hello $name, you are $age years old!',  style: TextStyle(fontSize: 20),  textAlign: TextAlign.center,  ),  ),  );  }} |
| --- |

OUTPUT: 