FRAMEWORK BASED CROSS PLATFORM APP DEVELOPMENT 2024-2025 ODD SEMESTER

Lab End Sem

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1a. Dart Basic Arithmetic Calculator

Develop a Dart application that performs basic arithmetic operations: addition, subtraction, multiplication, and division. The application should allow the user to input two numbers and select the operation to be performed.

```
SOLUTION:
import 'dart:io';
void main() {
 print("Enter first number:");
 double num1 = double.parse(stdin.readLineSync()!);
 print("Enter second number:");
 double num2 = double.parse(stdin.readLineSync()!);
 print("Select an operation:");
 print("1. Addition (+)");
 print("2. Subtraction (-)");
 print("3. Multiplication (*)");
 print("4. Division (/)");
```

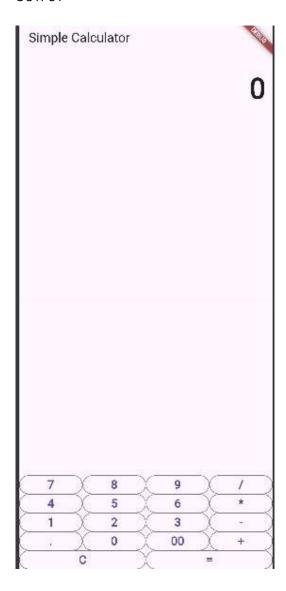
```
double result;
switch (choice) {
case 1:
  result = num1 + num2;
  print("Result: $result");
  break;
case 2:
  result = num1 - num2;
  print("Result: $result");
  break;
case 3:
  result = num1 * num2;
  print("Result: $result");
  break;
 case 4:
  if (num2 != 0) {
   result = num1 / num2;
   print("Result: $result");
  } else {
   print("Error: Division by zero is not allowed.");
  }
```

int choice = int.parse(stdin.readLineSync()!);

```
break;

default:
    print("Invalid choice.");
}
```

OUTPUT



1b. Flutter Image Gallery Application

Create a Flutter application that displays an image gallery with at least six images. Use a GridView to arrange the images attractively on the screen

```
SOLUTION:
import 'package:flutter/material.dart';
void main() {
 runApp(ImageGalleryApp());
}
class ImageGalleryApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return MaterialApp(
   home: ImageGalleryScreen(),
  );
 }
}
class ImageGalleryScreen extends StatelessWidget {
 final List<String> images = [
  'assets/images/image1.jpg',
```

'assets/images/image2.jpg',

'assets/images/image3.jpg',

'assets/images/image4.jpg',

```
'assets/images/image5.jpg',
 'assets/images/image6.jpg',
];
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
   title: Text('Image Gallery'),
  ),
  body: Padding(
   padding: const EdgeInsets.all(8.0),
   child: GridView.builder(
    gridDelegate: SliverGridDelegateWithFixedCrossAxisCount (\\
     crossAxisCount: 2,
     crossAxisSpacing: 8.0,
     mainAxisSpacing: 8.0,
    ),
    itemCount: images.length,
    itemBuilder: (context, index) {
     return Image.asset(images[index], fit: BoxFit.cover);
    },
   ),
```

```
),
);
}
}
```

OUTPUT:

