RIPHAH
INTERNATIONAL UNIVERSITY

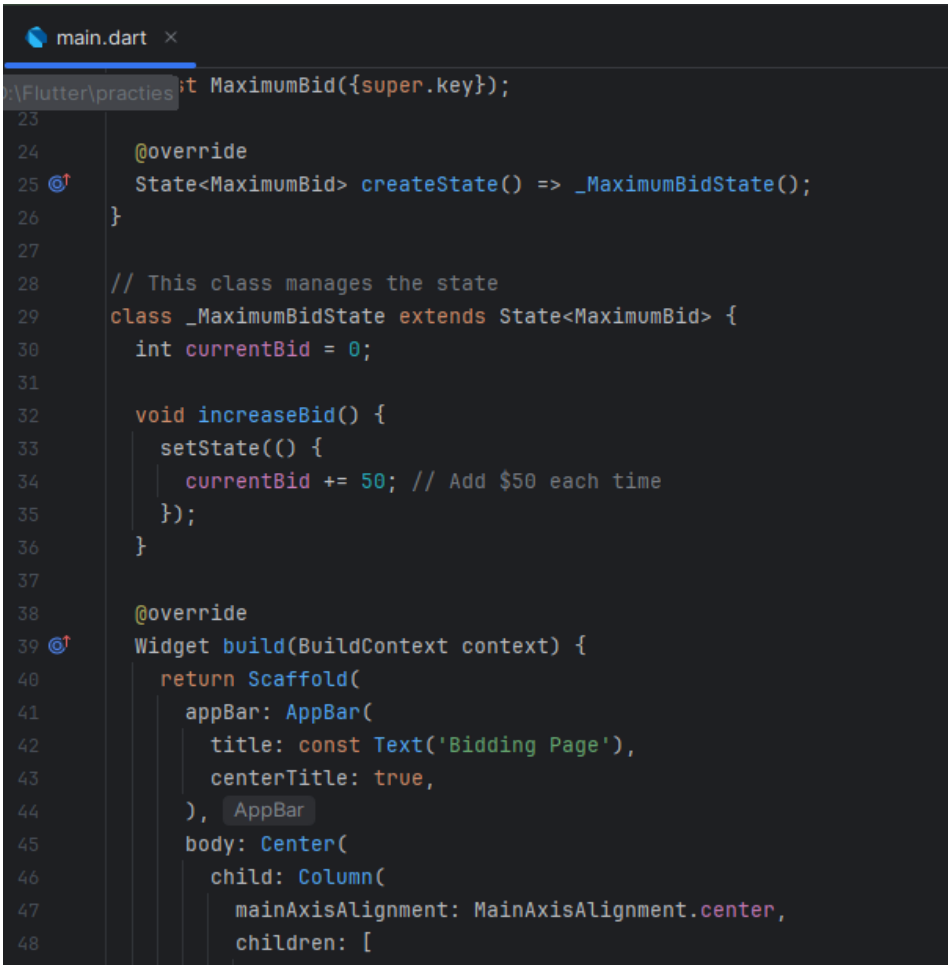
Name: Abdullah Zubair **SAP ID:53754**

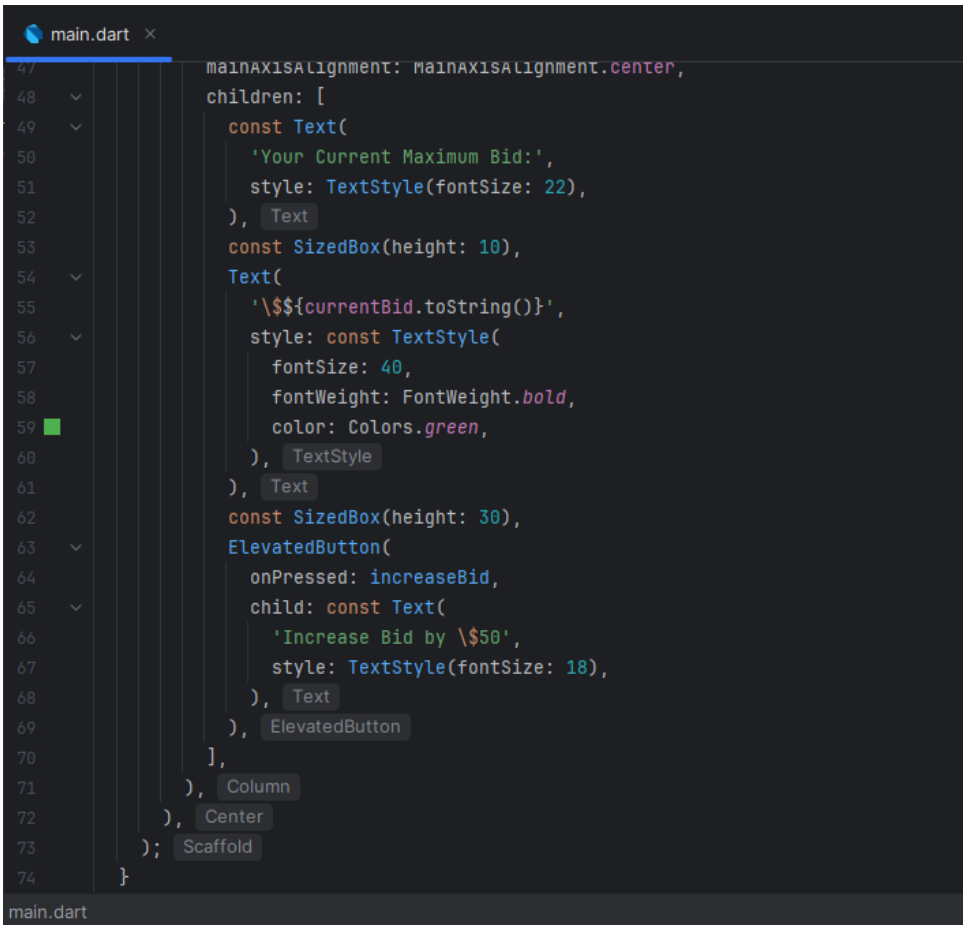
Subject: MAD **Section: SE 5-2**

Assignment Number 01

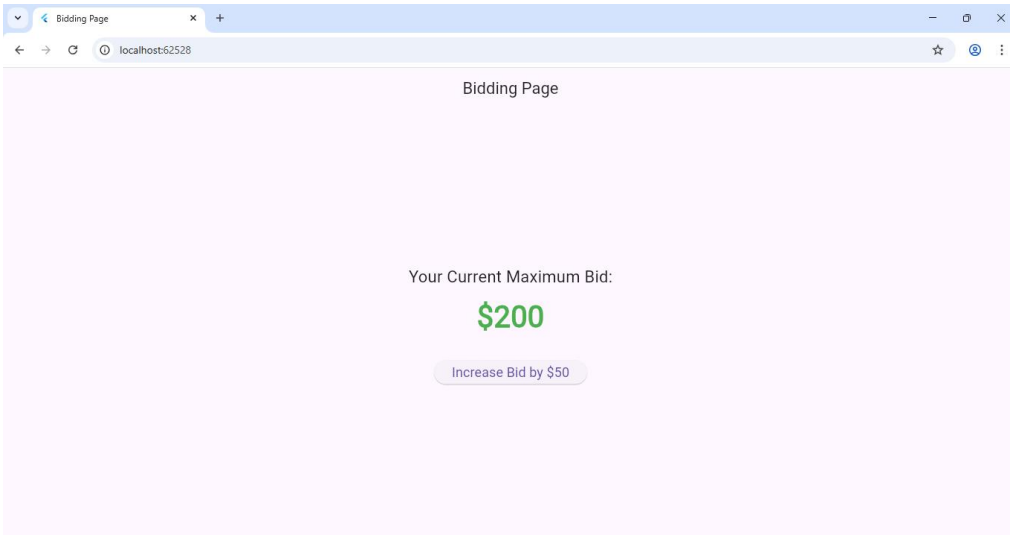
Github Repository Link: https://github.com/Abdullah-Zai/Mobile-Application-Development-.git

Task Number 01:


main.dart
:\Flutter\practies
t MaximumBid({super.key});
@override
State<MaximumBid> createState() => _MaximumBidState();
}
// This class manages the state
class _MaximumBidState extends State<MaximumBid> {
int currentBid = 0;
void increaseBid() {
setState(() {
currentBid += 50; // Add $50 each time
});
}
@override
Widget build(BuildContext context) {
return Scaffold(
appBar: AppBar(
title: const Text('Bidding Page'),
centerTitle: true,
), AppBar
body: Center(
child: Column(
mainAxisAlignment: MainAxisAlignment.center,
children: [


main.dart
mainAxisAlignment: MainAxisAlignment.center,
children: [
const Text(
'Your Current Maximum Bid:',
style: TextStyle(fontSize: 22),
), Text
const SizedBox(height: 10),
Text(
'\$${currentBid.toString()}',
style: const TextStyle(
fontSize: 40,
fontWeight: FontWeight.bold,
color: Colors.green,
), TextStyle
), Text
const SizedBox(height: 30),
ElevatedButton(
onPressed: increaseBid,
child: const Text(
'Increase Bid by \$50',
style: TextStyle(fontSize: 18),
), Text
), ElevatedButton
],
), Column
), Center
); Scaffold
}
main.dart

Output:


Bidding Page
localhost:62528
Bidding Page
Your Current Maximum Bid:
$200
Increase Bid by $50

Task 02:

task1.dart task2.dart

```dart
import 'dart:io';

void main() {
  // 1. Take name and age as input
  stdout.write("Enter your name: ");
  String? name = stdin.readLineSync();

  stdout.write("Enter your age: ");
  int age = int.parse(stdin.readLineSync()!);

  // Check eligibility
  if (age < 18) {
    print("Sorry $name, you are not eligible to register.");
    return; // stop execution
  }

  // 2. Ask how many numbers user wants to enter
  stdout.write("How many numbers do you want to enter? ");
  int n = int.parse(stdin.readLineSync()!);

  // 3. Input numbers and store in list
  List<int> numbers = [];
  for (int i = 0; i < n; i++) {
    stdout.write("Enter number ${i + 1}: ");
    int num = int.parse(stdin.readLineSync()!);
    numbers.add(num);
  }
```

task1.dart × task2.dart ×

```dart
    int num = int.parse(stdin.readLineSync()!);
    numbers.add(num);
  }

  // Calculate sums, largest and smallest
  int evenSum = 0;
  int oddSum = 0;
  int largest = numbers[0];
  int smallest = numbers[0];

  for (int num in numbers) {
    if (num % 2 == 0) {
      evenSum += num;
    } else {
      oddSum += num;
    }

    if (num > largest) largest = num;
    if (num < smallest) smallest = num;
  }

  // 4. Print the results
  print("\n----- Results -----");
  print("Numbers entered: $numbers");
  print("Sum of even numbers: $evenSum");
  print("Sum of odd numbers: $oddSum");
  print("Largest number: $largest");
  print("Smallest number: $smallest");
```

Output:

```
C:/flutter/bin/cache/dart-sdk/bin/dart.exe --enable-asserts --no-serve-devtools D:\Flutter\practies\lib\task2.dart
Enter your name: Abdullah
Enter your age: 20
How many numbers do you want to enter? 3
Enter number 1: 21
Enter number 2: 23
Enter number 3: 24
```

```
----- Results -----
Numbers entered: [21, 23, 24]
Sum of even numbers: 24
Sum of odd numbers: 44
Largest number: 24
Smallest number: 21

Process finished with exit code 0
```

Task 03:

task1.dart task2.dart task3.dart

```dart
import 'dart:io';

void main() {
  stdout.write("Enter a number (n): ");
  int n = int.parse(stdin.readLineSync()!);

  for (int i = 1; i <= n; i++) {
    for (int j = 1; j <= i; j++) {
      stdout.write("$j ");
    }
    print(""); // move to next line
  }
}
```

Output:


C:/flutter/bin/cache/dart-sdk/bin/dart.exe --enable-asserts --no-serve-devtools D:\Flutter\practies\lib\task3.dart
Enter a number (n): 5
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
Process finished with exit code 0