Academic Year: 2024-25
Semester: VI
Class / Branch / Div: TE- IT A/B/C
Subject: MAD & PWA Lab
Name of Instructor:Prof. Sujata Oak

Experiment No.:6

Aim: Apply concepts of gestures in Flutter App.

Prerequisites: Android studio, flutter SDK.

Problem Statement: To develop a flutter UI using GestureDetector widget of flutter.

Software: Android studio, flutter SDK.

Code:

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

void main() => runApp(const MyApp());

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  static const String _title = 'Flutter Code Sample';

  @override
  Widget build(BuildContext context) {
   return const MaterialApp(
     title: _title,
     home: MyStatefulWidget(),
   );
  }
}

class MyStatefulWidget extends StatefulWidget {
  const MyStatefulWidget({super.key});

  @override
  State<MyStatefulWidget> createState() => _MyStatefulWidgetState();
}

class _MyStatefulWidgetState extends State<MyStatefulWidget> {
  bool _lightIsOn = false;

  @override
  Widget build(BuildContext context) {
   return Scaffold(
     appBar: AppBar(title: Text('CHANGE STATE OF LIGHTS'),
```
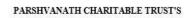
```
      ),

      body: Container(
        alignment: FractionalOffset.center,
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Padding(
              padding: const EdgeInsets.all(8.0),
              child: Icon(
              Icons.lightbulb_outline,
                color: _lightIsOn ? Colors.yellow.shade600 : Colors.black,
                size: 60,
              ),
            ),
            GestureDetector(
              onTap: () {
                setState(() {
                  // Toggle light when tapped.
                  _lightIsOn = !_lightIsOn;
                });
              },
              child: Container(
                color: Colors.yellow.shade600,
                padding: const EdgeInsets.all(8),
                // Change button text when light changes state.
                child: Text(_lightIsOn ? 'TURN LIGHT OFF':'TURN LIGHT ON'),
              ),
            ),
          ],
        ),
      ),
    );
  }
}
```

Output: