Experiment No: 06

Aim: To include bar charts in Flutter application

Theory:

A chart is a graphical representation of data where data is represented by a symbol such as a line, bar, pie, etc. In Flutter, the chart behaves the same as a normal chart. We use a chart in Flutter to represent the data in a graphical way that allows the user to understand them in a simple manner. We can also plot a graph to represents the rise and fall of our values. The chart can easily read the data and helps us to know the performance on a monthly or yearly basis whenever we need it.

Supported Chart Types in Flutter

Flutter supports mainly three types of charts, and each chart comes with several configuration options. The following are the chart used in Flutter application:

Line Chart

Bar Chart

Pie and Donut Chart

Line Chart

A line chart is a graph that uses lines for connecting individual data points. It displays the information in a series of data points. It is mainly used to track changes over a short and long period of time.

```
LineChart(

LineChartData(

// write your logic
),
);
```

Bar Chart

It is a graph that represents the categorical data with rectangular bars. It can be horizontal or vertical.

We can use it as below:

```
BarChart(

BarChartData(

// write your logic
),
);
```

Pie or Donut Chart

It is a graph that displays the information in a circular graph. In this graph, the circle is divided into sectors, and each shows the percentage or proportional data.

We can use it as below:

```
PieChart(
PieChartData(
// write your logic
),
);
```

Code:

Main.dart

```
import 'dart:core';
import 'package:flutter/material.dart';
import 'package:charts_flutter/flutter.dart' as charts;
```

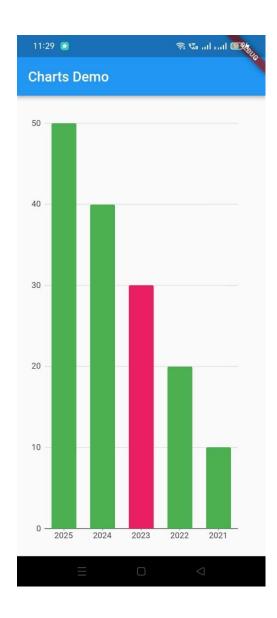
```
runApp(const MyApp());
const MyApp({super.key});
 return MaterialApp(
   home: MyHomePage(),
State<MyHomePage> createState() => MyHomePageState();
    Sales ( '2021',10),
  appBar: AppBar(
    padding: EdgeInsets.all(20.0),
```

```
}
class Sales{
  final String year;
  final int sales;
  Sales(this.year, this.sales);
}
```

Pubspec.yaml

```
description: A new Flutter project.
```

Output:



 $\textbf{Conclusion:} \ \textbf{Therefore we have successfully implemented bar charts in Flutter application}$