Experiment 09

AIM:- Create and application with grid view in Flutter.

Source :- Mai.dart

Code :-

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

void main() {
 runApp(GroceryGridApp());
}

class GroceryGridApp extends StatelessWidget {
 final List<Map<String, dynamic>> groceryItems = [
  {'name': 'Apples', 'icon': Icons.apple, 'color': Colors.redAccent},
  {'name': 'Bananas', 'icon': Icons.ramen_dining, 'color': Colors.yellow},
  {'name': 'Milk', 'icon': Icons.local_drink, 'color': Colors.blue},
  {'name': 'Eggs', 'icon': Icons.egg, 'color': Colors.orange},
  {'name': 'Bread', 'icon': Icons.bakery_dining, 'color': Colors.brown},
  {'name': 'Juice', 'icon': Icons.local_cafe, 'color': Colors.deepPurple},
  {'name': 'Rice', 'icon': Icons.rice_bowl, 'color': Colors.teal},
  {'name': 'Snacks', 'icon': Icons.fastfood, 'color': Colors.pinkAccent},
 ];

 @override
 Widget build(BuildContext context) {
  return MaterialApp(
   debugShowCheckedModeBanner: false,
   title: 'Grocery Grid',
   home: Scaffold(
    appBar: AppBar(
     title: Text("Grocery Shelf"),
     backgroundColor: Colors.green,
    ),
    body: GridView.count(
     crossAxisCount: 2,
     crossAxisSpacing: 10,
     mainAxisSpacing: 10,
     padding: EdgeInsets.all(10),
     childAspectRatio: 1,
```

```dart
        children: groceryItems.map((item) {
         return Container(
          decoration: BoxDecoration(
           color: item['color']?.withOpacity(0.2),
           borderRadius: BorderRadius.circular(12),
           border: Border.all(color: item['color'], width: 2),
          ),
          child: Column(
           mainAxisAlignment: MainAxisAlignment.center,
           children: [
             Icon(item['icon'], size: 40, color: item['color']),
             SizedBox(height: 10),
             Text(
              item['name'],
              style: TextStyle(
               fontSize: 18,
               fontWeight: FontWeight.bold,
               color: item['color'],
              ),
             ),
           ],
          ),
         );
        }).toList(),
       ),
      ),
     );
    }
   }
```

Output:-