



Practical 9 - 10

Create and application with list view and grid view in Flutter.

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

void main() => runApp(MaterialApp(debugShowCheckedModeBanner: false, home: MyApp()));

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text('List & Grid View')),
      body: Column(
        children: [
          Expanded(
            flex: 2,
            child: ListView(children: [
              ListTile(
                leading: CircleAvatar(
                  child: Icon(Icons.person, color: Colors.white), // Contact Avatar
                  backgroundColor: Colors.blue,
                ),
                title: Text('Name'),
                subtitle: Text('Enter Your Full Name'),
              ),
              ListTile(
                leading: CircleAvatar(
                  child: Icon(Icons.phone, color: Colors.white), // Phone Icon
                  backgroundColor: Colors.green,
                ),
                title: Text('Mobile Number'),
                subtitle: Text('+123 456 7890'), // Example phone number
              ),
            ]),
          Expanded(
            flex: 4,
            child: LayoutBuilder(builder: (context, constraints) {
              int crossAxisCount = (constraints.maxWidth ~/ 200).clamp(2, 6); // Adjusting for larger
screens
              return GridView.builder(
                gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(
                  crossAxisCount: crossAxisCount,
                  crossAxisSpacing: 10,
                  mainAxisSpacing: 10,
                  childAspectRatio: 1.2,
                ),
              ),
            ),
          ),
        ],
      ),
    );
  }
}
```



```
        itemCount: 12,  
        itemBuilder: (context, index) => Container(  
          margin: EdgeInsets.all(3),  
          color: Colors.blueGrey[100 * (index % 9)],  
          child: Center(child: Text('Item $index', style: TextStyle(fontSize: 18))),  
        ),  
      );  
    }  
  ),  
],  
),  
);  
}  
}
```

