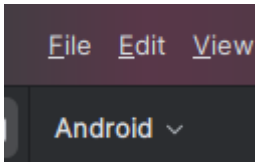
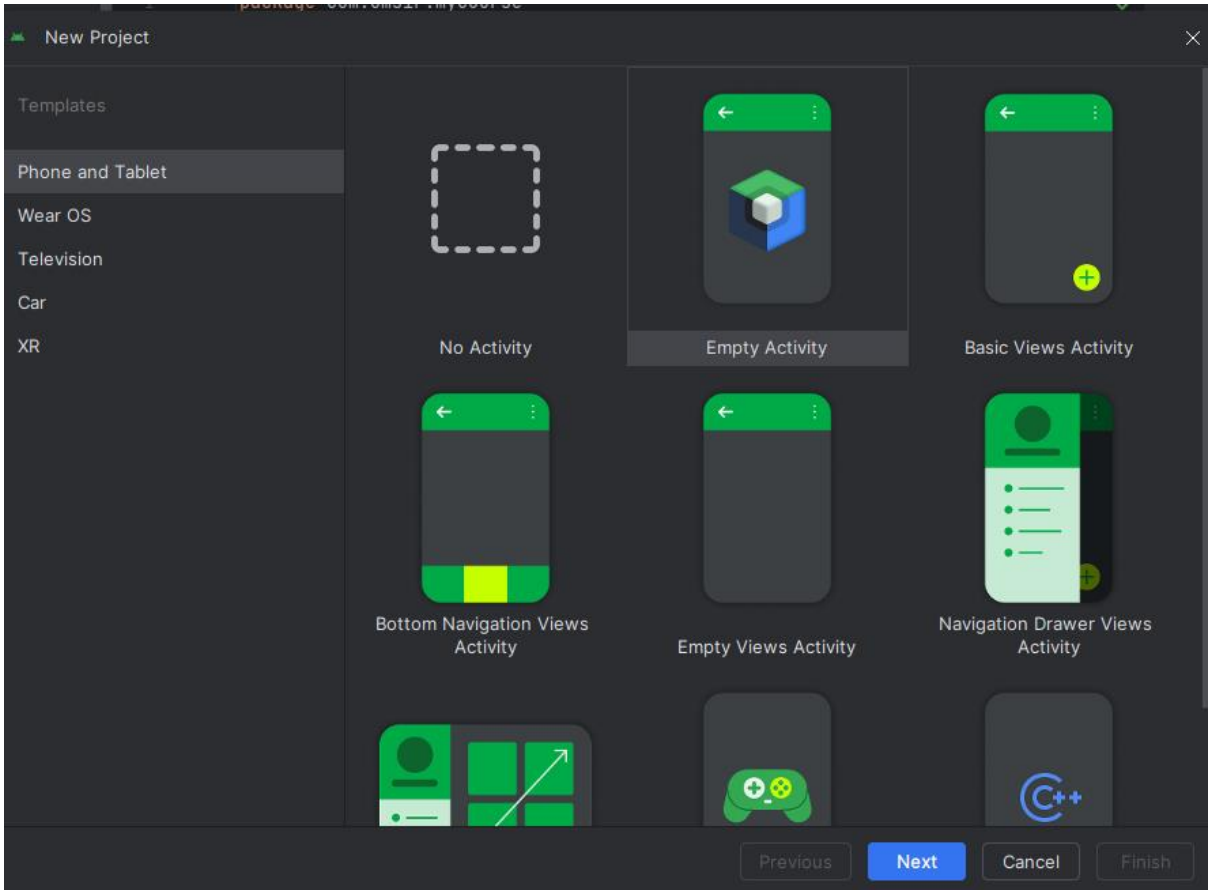
Creating an Mobile Android app with 3 buttons to open link in kotlin:-

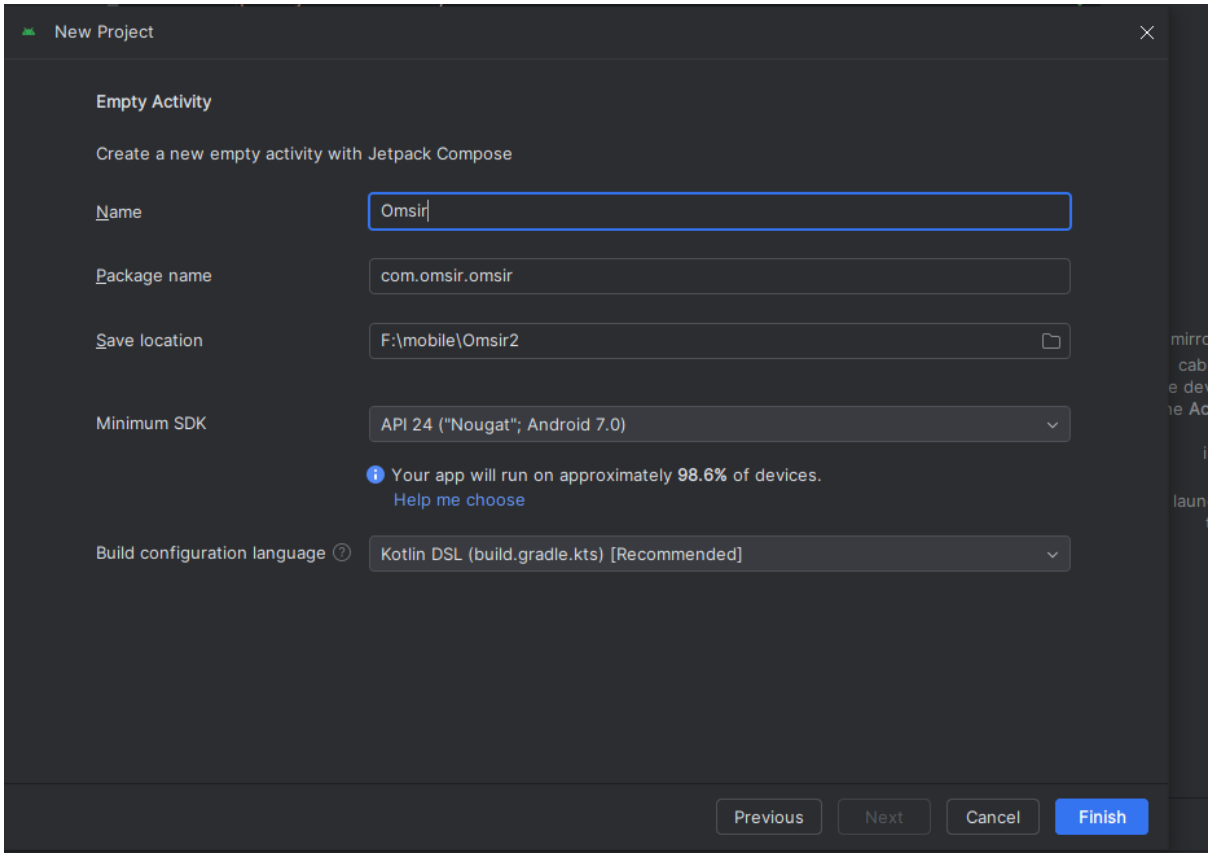
Step 1:-



Step 2:-



Step 3:-



And finally click on finish .

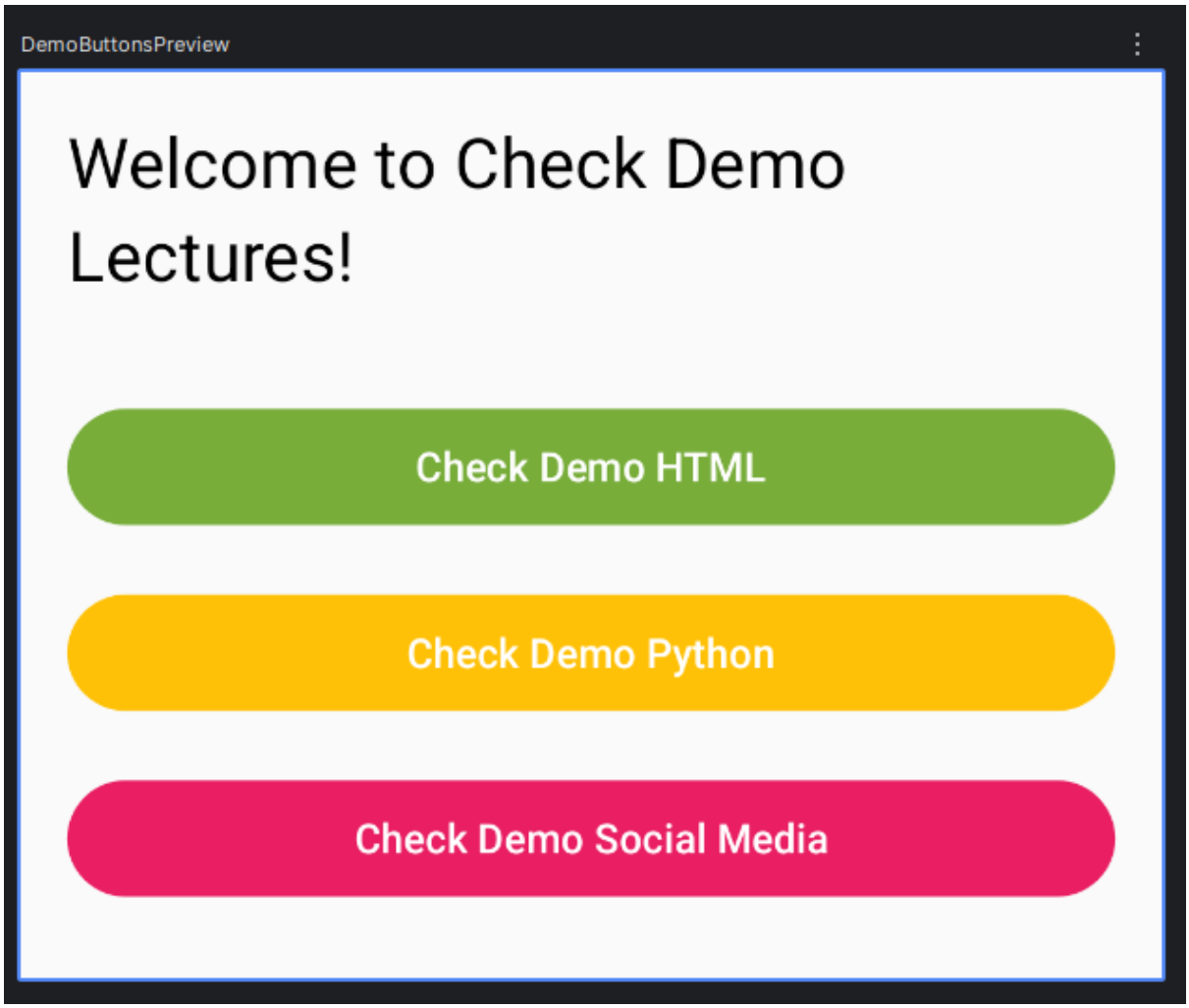
Now we will make changes in MainActivit.kt file :-

```
package com.omsir.omsir

import android.content.Intent
import androidx.core.net.toUri
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import androidx.compose.foundation.layout.*
import androidx.compose.material3.*
import androidx.compose.ui.graphics.Color

import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.tooling.preview.Preview
```

```
import androidx.compose.ui.unit.dp
import com.omsir.omsir.ui.theme.OmsirTheme

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContent {
            OmsirTheme {
                Scaffold(modifier = Modifier.fillMaxSize()) { innerPadding
->
                    Column(modifier = Modifier
                        .padding(innerPadding)
                        .padding(16.dp)) {

                        Text(
                            text = "Welcome to the Demo!",
                            style = MaterialTheme.typography.headlineSmall,
                            modifier = Modifier.padding(bottom = 24.dp)
                        )

                        DemoButtons()
                    }
                }
            }
        }
    }
}

@Composable
fun DemoButtons() {
    val context = LocalContext.current

    Column(modifier = Modifier.fillMaxWidth()) {
        Button(
            onClick = {
                val intent = Intent(Intent.ACTION_VIEW,
"https://www.ommaurya.com/html-demo".toUri())
                context.startActivity(intent)
            },colors = ButtonDefaults.buttonColors(
                containerColor = Color(0xFF78AD3A),     // background color
                contentColor = Color.White              // text/icon color
            ),
            modifier = Modifier
                .fillMaxWidth()
                .padding(vertical = 8.dp)
        ) {
            Text("Check Demo HTML")
        }

        Button(
            onClick = {
                val intent = Intent(Intent.ACTION_VIEW,
"https://www.ommaurya.com/python-demo".toUri())
                context.startActivity(intent)
            },colors = ButtonDefaults.buttonColors(
                containerColor = Color(0xFFFFC107),     // background color
                contentColor = Color.White              // text/icon color
            ),
            modifier = Modifier
                .fillMaxWidth()
```

```
                .padding(vertical = 8.dp)
        ) {
            Text("Check Demo Python")
        }

        Button(
            onClick = {
                val intent = Intent(Intent.ACTION_VIEW,
"https://www.ommaurya.com".toUri())
                context.startActivity(intent)
            },colors = ButtonDefaults.buttonColors(
                containerColor = Color(0xFFE91E63),      // background color
                contentColor = Color.White               // text/icon color
            ),
            modifier = Modifier
                .fillMaxWidth()
                .padding(vertical = 8.dp)
        ) {
            Text("Check Demo Social Media")
        }
    }
}


@Preview(showBackground = true)
@Composable
fun DemoButtonsPreview() {
    OmsirTheme {
        Column(modifier = Modifier.padding(16.dp)) {
            Text(
                text = "Welcome to Check Demo Lectures!",
                style = MaterialTheme.typography.headlineSmall,
                modifier = Modifier.padding(bottom = 24.dp)
            )
            DemoButtons()
        }
    }
}
```

Output Will be Like this :-



Let’s walk through your full `MainActivity.kt` file **line-by-line**, explaining each part — from package declarations, imports, activity lifecycle, UI structure with Jetpack Compose, buttons, styling, and previewing the layout.

📝 FULL LINE-BY-LINE EXPLANATION

□ 1. Package Declaration

```
package com.omsir.omsir
```

- Defines the **namespace** for this Kotlin file.
- All files in this app are under the package `com.omsir.omsir`.
- This helps organize and avoid name conflicts.

---

2. Imports

These bring in external classes and functions needed for the app.

```
import android.content.Intent
```

- For launching external activities like a web browser.

```
import androidx.core.net.toUri
```

- Kotlin extension to convert a `String` URL to a `Uri` with `"url".toUri()`.

```
import android.os.Bundle
```

- Used for passing data between activities or managing state in `onCreate()`.

```
import androidx.activity.ComponentActivity
```

- Base class for Compose-compatible activities.

```
import androidx.activity.compose.setContent
```

- Used to **set the UI** using Jetpack Compose inside an activity.

```
import androidx.activity.enableEdgeToEdge
```

- Allows drawing behind the status and navigation bars (modern edge-to-edge layout).

```
import androidx.compose.foundation.layout.*
```

- Provides layout composables like `Column`, `Row`, `Box`, `Spacer`, and `Modifier.padding`.

```
import androidx.compose.material3.*
```

- Gives access to Material 3 components: `Button`, `Text`, `Scaffold`, `MaterialTheme`, etc.

```
import androidx.compose.ui.graphics.Color
```

- Defines and uses colors, like `Color.White` or custom ones via HEX.

```
import androidx.compose.runtime.Composable
```

- Marks a function as a **Composable**, meaning it builds part of the UI in Compose.

```
import androidx.compose.ui.Modifier
```

- `Modifier` is used to modify how components look or behave (e.g., padding, size, color).

```
import androidx.compose.ui.platform.LocalContext
```

- Accesses the current Android `Context` inside a composable (needed for launching intents).

```
import androidx.compose.ui.tooling.preview.Preview
```

- Allows showing a **preview of the UI** in Android Studio without running the app.

```
import androidx.compose.ui.unit.dp
```

- Provides support for defining dimensions in density-independent pixels (`dp`).

```
import com.omsir.omsir.ui.theme.OmsirTheme
```

- Imports the **custom theme** (colors, typography, etc.) generated when the project was created.

🏗 3. MainActivity Class

```
class MainActivity : ComponentActivity() {
```

- Entry point of your app. Extends `ComponentActivity` to support Jetpack Compose.

```
override fun onCreate(savedInstanceState: Bundle?) {
```

- Called when the activity is created. Initializes UI and state.

```
super.onCreate(savedInstanceState)
```

- Calls the superclass's `onCreate` to ensure proper initialization.

```
enableEdgeToEdge()
```

- Lets your UI draw **under system bars** (status, nav bar) — modern design approach.

```
setContent {
```

- Starts your Compose UI tree — everything inside this block defines your app’s layout.

🎨 UI Layout with Compose

```
OmsirTheme {
```

- Applies your custom Material 3 theme to all UI inside it.

```
Scaffold(modifier = Modifier.fillMaxSize()) { innerPadding ->
```

- `Scaffold` provides basic structure (can have top bar, FAB, content, etc.).
- `.fillMaxSize()` makes it take the entire screen.
- `innerPadding` handles areas affected by status/navigation bars.

```
Column(modifier = Modifier
    .padding(innerPadding)
    .padding(16.dp)) {
```

- `Column` arranges children vertically.
- `padding(innerPadding)` ensures safe content.
- `padding(16.dp)` adds spacing inside the screen.

🔤 Text Header

```
Text(
    text = "Welcome to the Demo!",
    style = MaterialTheme.typography.headlineSmall,
    modifier = Modifier.padding(bottom = 24.dp)
)
```

- Displays a text heading.
- Uses Material 3 `headlineSmall` style.
- Adds space below it (`bottom = 24.dp`).

🔘 Buttons Block

```
DemoButtons()
```

- Calls the `DemoButtons()` composable to show your 3 custom buttons.

🔘 DemoButtons Composable

```
@Composable
fun DemoButtons() {
```

- Reusable function that builds a **vertical list of buttons**.

```
val context = LocalContext.current
```

- Gets the current Android `Context` needed to launch external links.

```
Column(modifier = Modifier.fillMaxWidth()) {
```

- Organizes buttons vertically.

□ HTML Button

```
Button(
    onClick = {
        val intent = Intent(Intent.ACTION_VIEW,
"https://www.ommaurya.com/html-demo".toUri())
        context.startActivity(intent)
    },
    colors = ButtonDefaults.buttonColors(
        containerColor = Color(0xFF78AD3A),
        contentColor = Color.White
    ),
    modifier = Modifier
        .fillMaxWidth()
        .padding(vertical = 8.dp)
) {
    Text("Check Demo HTML")
}
```

- **Action**: Opens the HTML demo link in a browser.
- **Color**: Green background (`0xFF78AD3A`), white text.
- **Layout**: Full width, vertical spacing (`8.dp` above and below).

🐍 Python Button (Yellow)

```
Button(
    onClick = {
        val intent = Intent(Intent.ACTION_VIEW,
"https://www.ommaurya.com/python-demo".toUri())
        context.startActivity(intent)
    },
    colors = ButtonDefaults.buttonColors(
        containerColor = Color(0xFFFFC107),
        contentColor = Color.White
    ),
    modifier = Modifier
        .fillMaxWidth()
        .padding(vertical = 8.dp)
) {
    Text("Check Demo Python")
}
```

💗 Social Media Button (Pink)

```
Button(
    onClick = {
        val intent = Intent(Intent.ACTION_VIEW,
"https://www.ommaurya.com".toUri())
        context.startActivity(intent)
    },
    colors = ButtonDefaults.buttonColors(
        containerColor = Color(0xFFE91E63),
        contentColor = Color.White
    ),
    modifier = Modifier
        .fillMaxWidth()
        .padding(vertical = 8.dp)
) {
    Text("Check Demo Social Media")
}
```

 Preview Composable

```
@Preview(showBackground = true)
@Composable
fun DemoButtonsPreview() {
```

- This function allows you to **preview the layout** in Android Studio without running it on a device.

```
OmsirTheme {
    Column(modifier = Modifier.padding(16.dp)) {
        Text(
            text = "Welcome to Check Demo Lectures!",
            style = MaterialTheme.typography.headlineSmall,
            modifier = Modifier.padding(bottom = 24.dp)
        )
        DemoButtons()
    }
}
```

- Previews the screen with heading and the 3 buttons.

✅ Summary

Section	Purpose
`package`	Organizes your code into a namespace
`imports`	Bring in tools and components needed in code
`MainActivity`	App's entry point and Compose UI setup

Section	Purpose
`enableEdgeToEdge()`	Allow UI behind system bars (immersive layout)
`setContent {}`	Starts the Compose UI
`OmsirTheme`	Applies your custom Material theme
`Scaffold`	Base layout structure
`Text`	Displays a heading
`DemoButtons()`	Shows 3 colored buttons that open URLs
`@Preview`	Lets you preview UI in Android Studio