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20BEC1307

Week 3:

Code:

```
package com.example.week3

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.items
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.OutlinedButton
import androidx.compose.material3.Surface
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.remember
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.viewinterop.AndroidView
import com.example.week3.ui.theme.Week3Theme
import com.pierfrancescosoffritti.androidyoutubeplayer.core.player.YouTubePlayer
import com.pierfrancescosoffritti.androidyoutubeplayer.core.player.listeners.AbstractYouTubePlayerListener
import com.pierfrancescosoffritti.androidyoutubeplayer.core.player.views.YouTubePlayerView

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            Week3Theme {
                // A surface container using the 'background' color from
the theme
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colorScheme.background
                ) {
                    Greeting("Android")
                    RecyclerView(ids =
listOf("x3bfa3DZ8JM", "foElmO2yM04", "EgqUJOudrcM", "cjP8hn_iIwI", "mEc3TI3GcD4
"))
                }
            }
        }
    }
}
```

```

    }
}
@Composable
fun ListItem(idd:String){
    var isClicked = remember {mutableStateOf(false)}
    Surface(color=MaterialTheme.colorScheme.primary,
modifier=Modifier.padding(vertical=4.dp, horizontal = 8.dp)){
        Column(modifier= Modifier
            .padding(24.dp)
            .fillMaxWidth()){
            Row {
                OutlinedButton(onClick =
{isClicked.value=!isClicked.value}) {
                    if(isClicked.value){
                        Text(text = "STOP VIDEO",color= Color.Black)}
                    else{
                        Text(text = "PLAY VIDEO",color= Color.Black)
                    }
                }
                if(isClicked.value){
                    YoutubeScreen(videoId = idd)
                }
            }
        }
    }
}
@Composable
fun RecyclerView(ids:List<String>){
    LazyColumn(modifier = Modifier.padding(vertical = 4.dp)){
        items(items=ids){id->
            ListItem(idd =id )
        }
    }
}
@Composable
fun YoutubeScreen(
    videoId: String
) {
    val ctx = LocalContext.current
    AndroidView(factory = {
        var view = YouTubePlayerView(it)
        val fragment = view.addYouTubePlayerListener(
            object : AbstractYouTubePlayerListener() {
                override fun onReady(youTubePlayer: YouTubePlayer) {
                    super.onReady(youTubePlayer)
                    youTubePlayer.loadVideo(videoId, 0f)
                }
            }
        )
        view
    })
}
@Composable
fun Greeting(name: String, modifier: Modifier = Modifier) {
    Text(
        text = "Hello $name!",

```

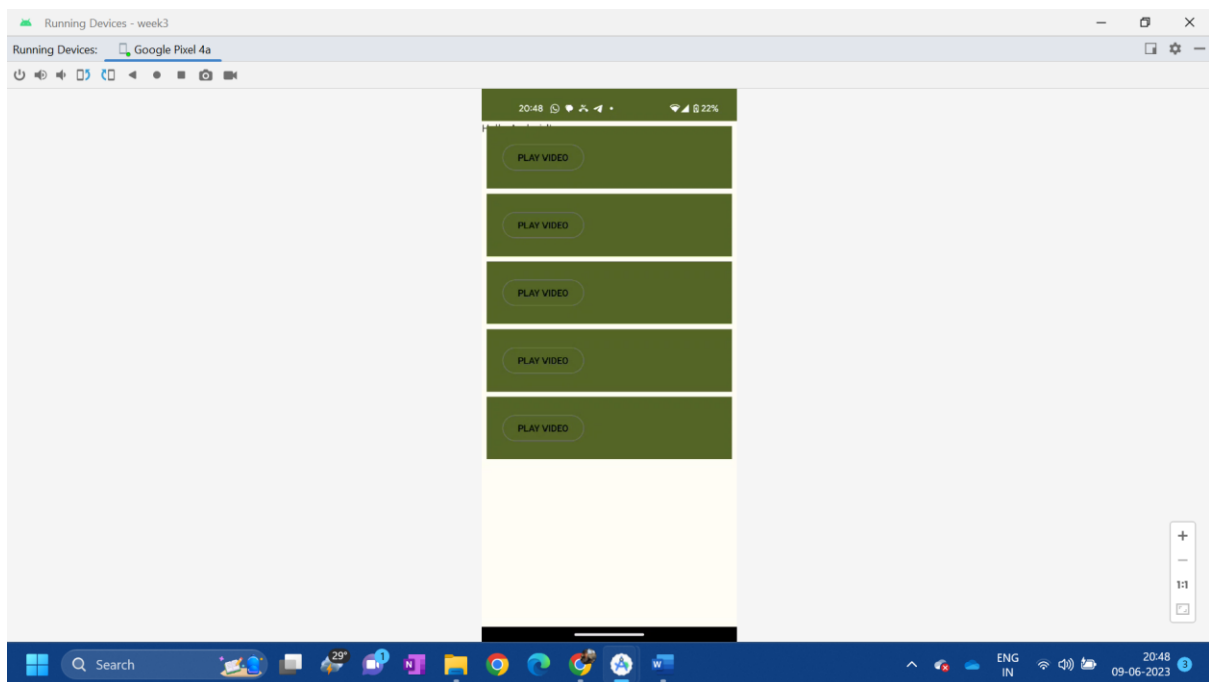
```

        modifier = modifier
    )
}

@Preview(showBackground = true)
@Composable
fun GreetingPreview() {
    Week3Theme {
        Greeting("Android")
    }
}

```

Output:



Screen recording of the application link:

<https://drive.google.com/file/d/1nnySdUOFj2WpTMyu9zS8nJ3j-6CRQe2y/view?usp=sharing>