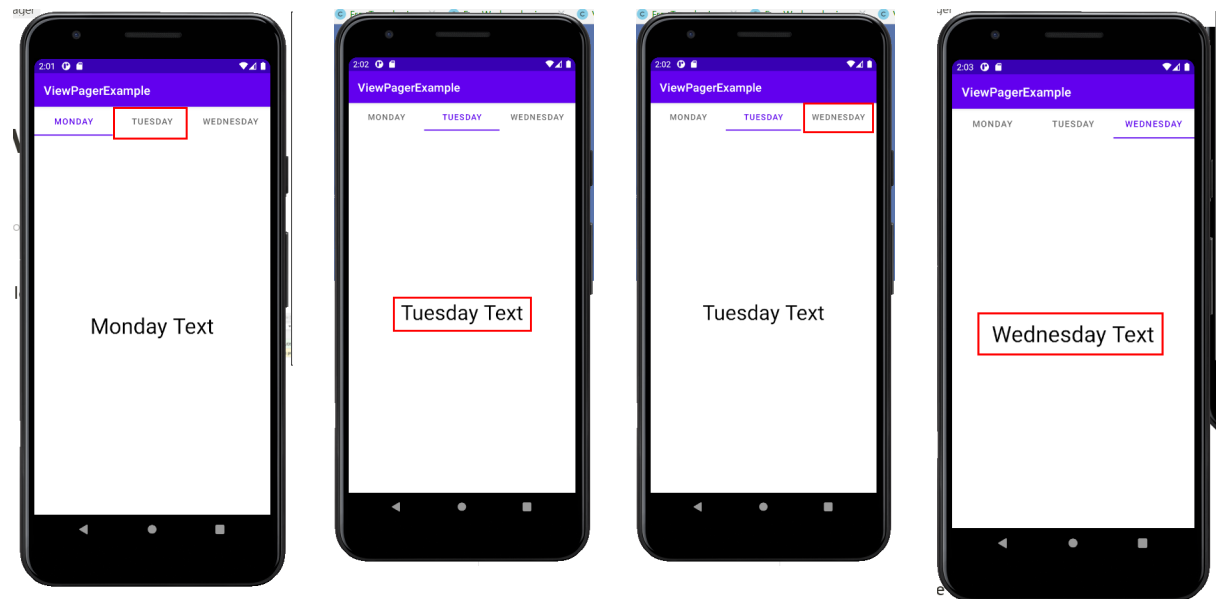
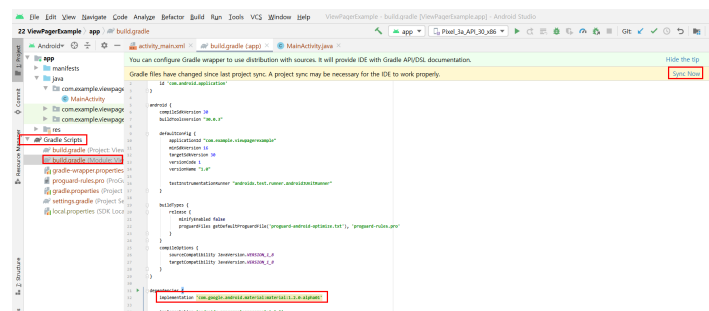


22 ViewPager

결과

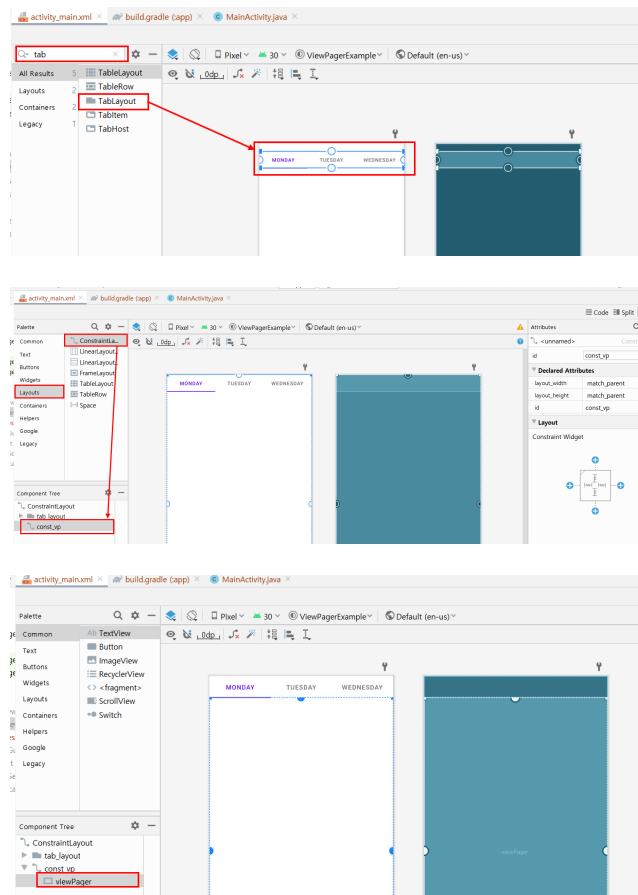


1. Gradle Scripts 수정



2. activity_main.xml

* 주의) 이 실습은 ViewPager에 해당하는 실습이므로 Design탭에 ViewPager2만 있으면 Code탭으로 넘어와서 ViewPager로 바꾸어 줘야 한다.



```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <com.google.android.material.tabs.TabLayout
        android:id="@+id/tab_layout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="@+id/const_vp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <com.google.android.material.tabs.TabItem
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Monday" />

        <com.google.android.material.tabs.TabItem
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Tuesday" />

        <com.google.android.material.tabs.TabItem
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Wednesday" />

    </com.google.android.material.tabs.TabLayout>

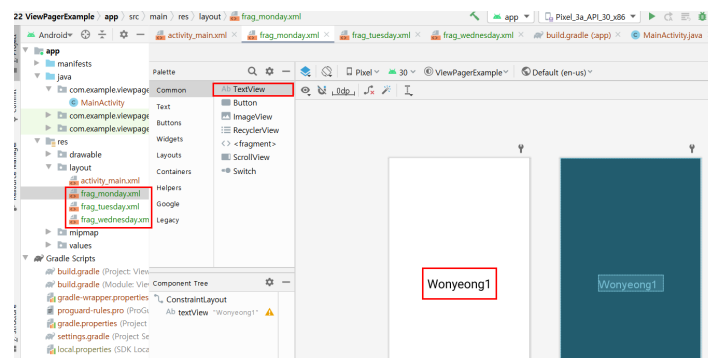
    <androidx.constraintlayout.widget.ConstraintLayout
        android:id="@+id/const_vp"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/tab_layout">
```

```

<androidx.viewpager.widget.ViewPager
    android:id="@+id/viewPager"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
</androidx.constraintlayout.widget.ConstraintLayout>

```

3. frag_monday.xml, frag_tuesday.xml, frag_wednesday.xml 생성



```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Monday Text"
        android:textColor="#000000"
        android:textSize="36sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

4. FragMonday.java, FragTuesDay.java, FragWednesDay.java 생성

```

package com.example.viewpagerexample;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;

public class FragMonday extends Fragment {
    private View view;

    public static FragMonday newInstance() {
        FragMonday fragMonday = new FragMonday();
    }
}

```

```

        return fragMonday;
    }

    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {
        view = inflater.inflate(R.layout.frag_monday, container, false);

        return view;
    }
}

```

5. ViewPagerAdapter.java 생성

```

package com.example.viewpagerexample;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentPagerAdapter;

public class ViewPagerAdapter extends FragmentPagerAdapter {
    public ViewPagerAdapter(@NonNull FragmentManager fm) {
        super(fm);
    }

    // Fragment를 보여주는 처리를 구현한 곳
    @NonNull
    @Override
    public Fragment getItem(int position) {
        switch (position) {
            case 0:
                return FragMonday.newInstance();
            case 1:
                return FragTuesday.newInstance();
            case 2:
                return FragWednesday.newInstance();
            default:
                return null;
        }
    }

    @Override
    public int getCount() {
        return 3;
    }

    @Nullable
    @Override
    public CharSequence getPageTitle(int position) {
        switch (position) {
            case 0:
                return "Monday";
            case 1:
                return "Tuesday";
            case 2:
                return "Wednesday";
            default:
                return null;
        }
    }
}

```

6. MainActivity.java 코드

```

package com.example.viewpagerexample;

import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentPagerAdapter;
import androidx.viewpager.widget.ViewPager;
import androidx.viewpager2.widget.ViewPager2;

import android.os.Bundle;

import com.google.android.material.tabs.TabLayout;

public class MainActivity extends AppCompatActivity {

    private FragmentPagerAdapter fragmentPagerAdapter;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // ViewPager 세팅
        ViewPager viewPager = findViewById(R.id.viewPager);
        fragmentPagerAdapter = new FragmentPagerAdapter(getSupportFragmentManager());

        TabLayout tabLayout = findViewById(R.id.tab_layout);
        viewPager.setAdapter(fragmentPagerAdapter);
        tabLayout.setupWithViewPager(viewPager);

    }
}

```