Assignments:1 to 4 + All the Tasks

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Academic ID: 21-Arid-874
Course: BSSE-6A (Evening)

Github Public Repository Link for Review:
https://github.com/Hammad-khalil/app-dev-assignments

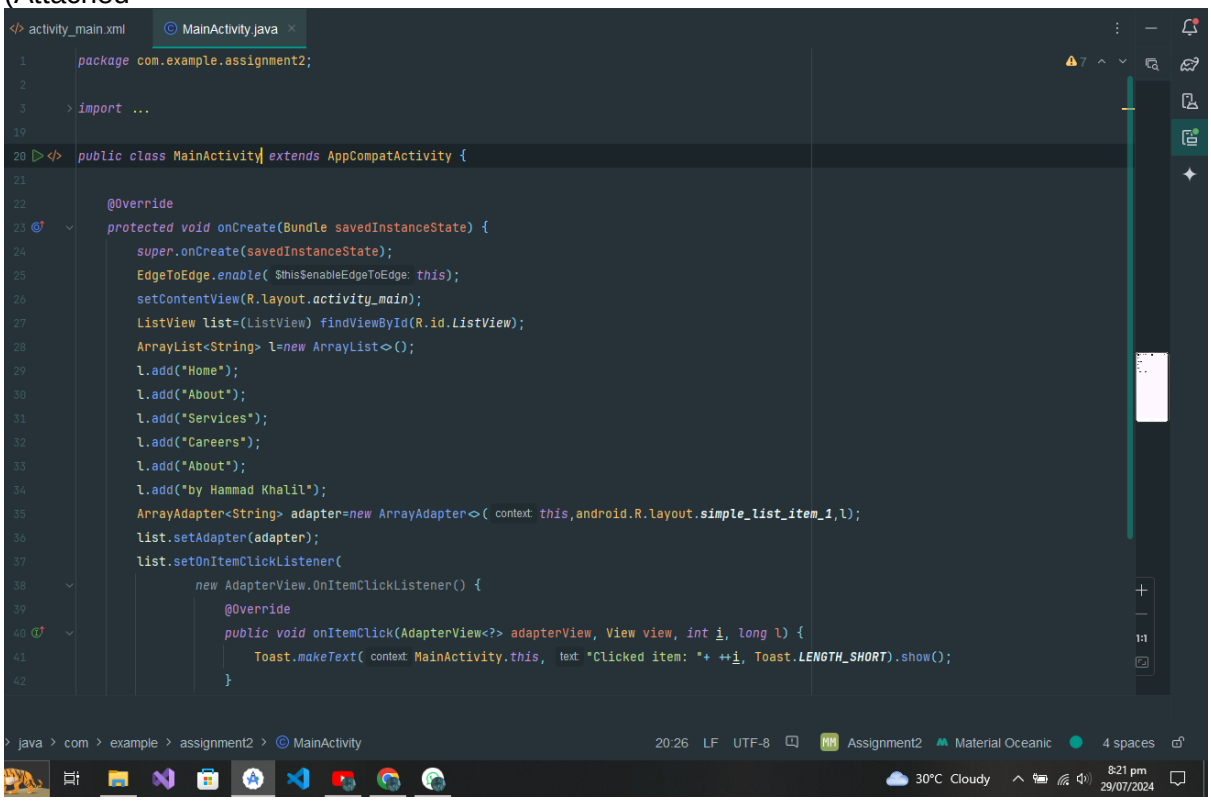
Dependencies/Libraries Used:

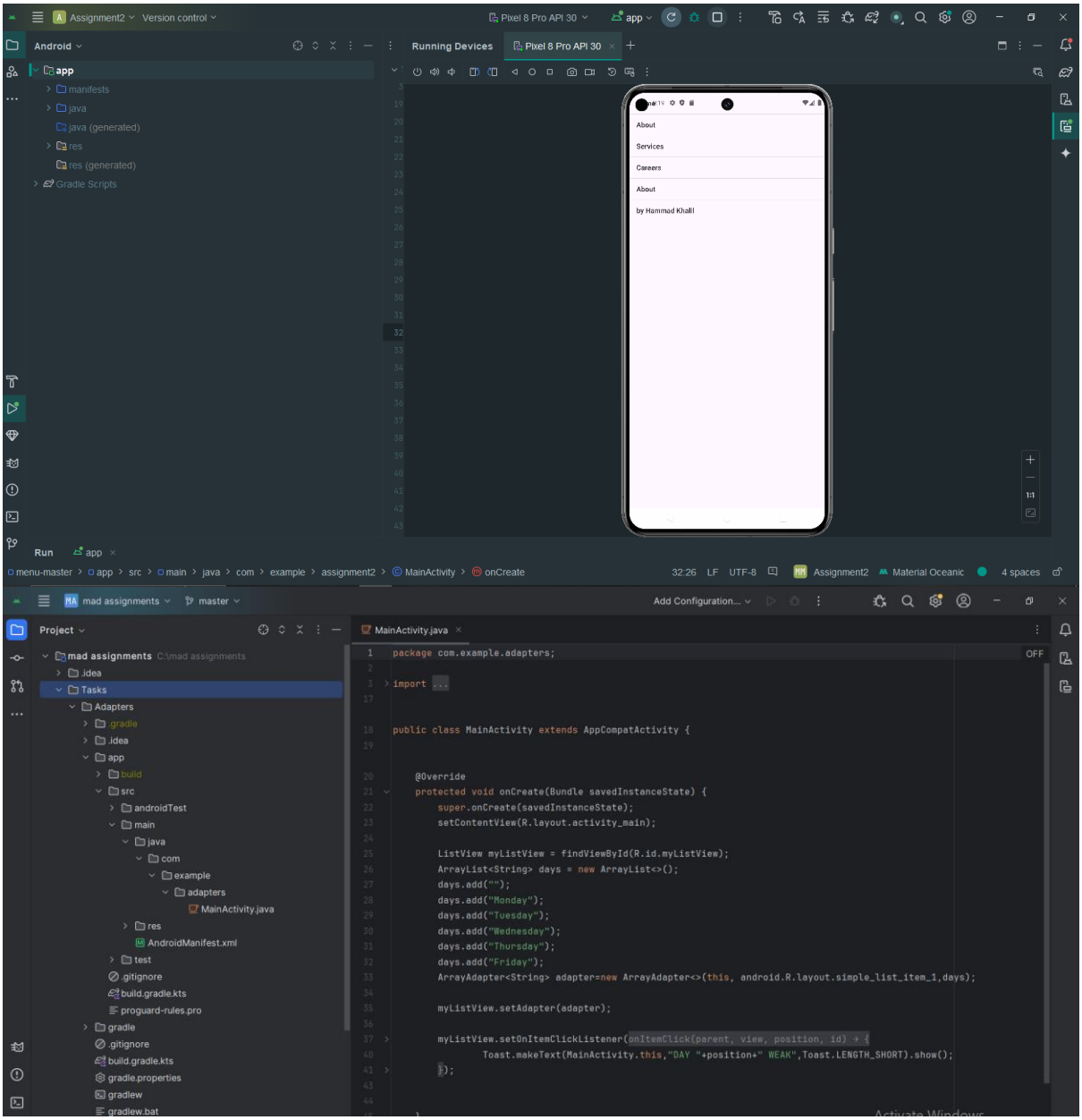
- XML
- Java

Screenshots of UI:
(Attach the screenshots of the User Interface here.)

Screenshots of Code:

- **Frontend Code Screenshots:**
  (Attached

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Pixel 8 Pro API 30
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gradlew
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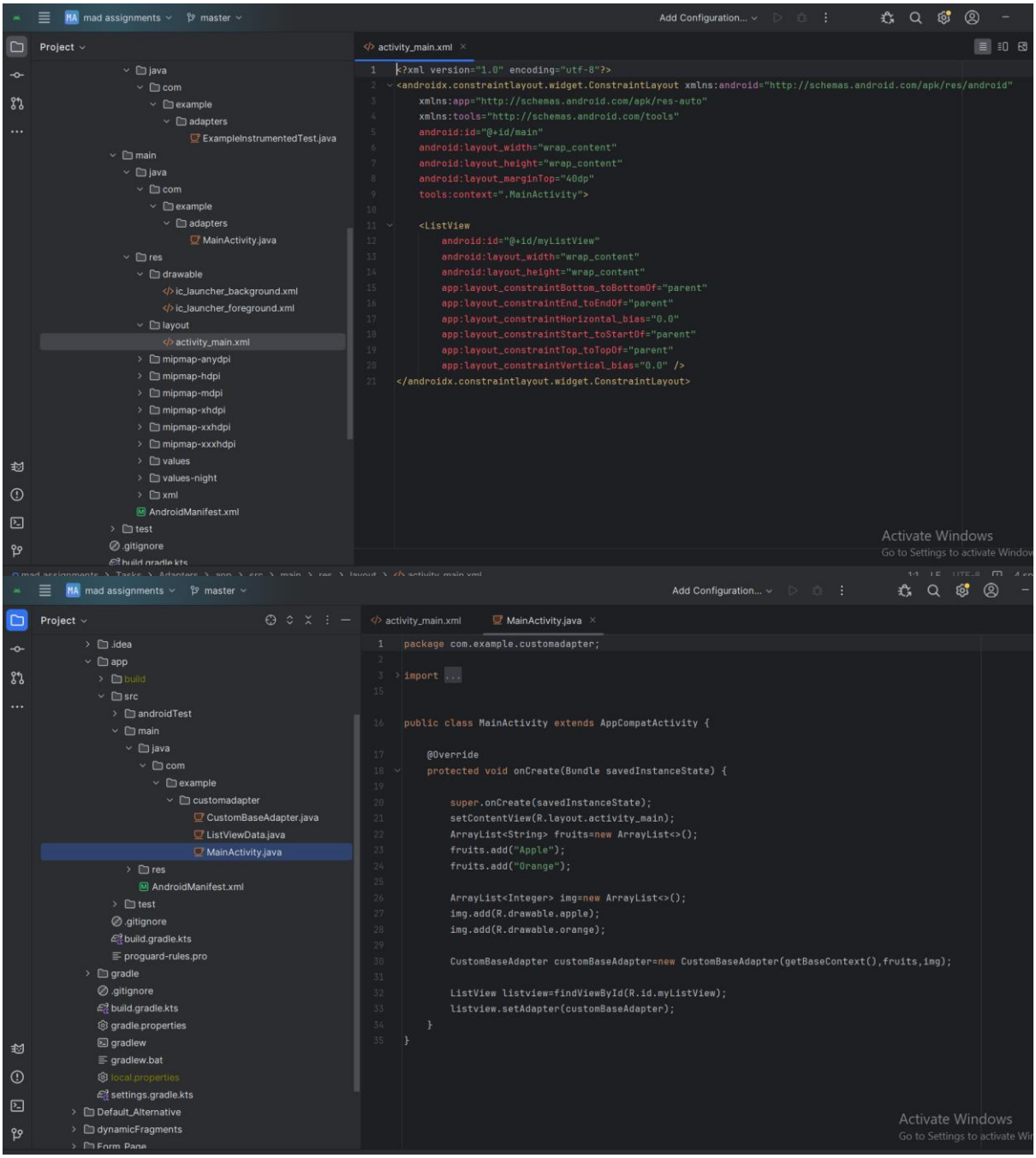
MainActivity.java
OFF
package com.example.adapters;
import ...
public class MainActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
ListView myListView = findViewById(R.id.myListView);
ArrayList<String> days = new ArrayList<>();
days.add("");
days.add("Monday");
days.add("Tuesday");
days.add("Wednesday");
days.add("Thursday");
days.add("Friday");
ArrayAdapter<String> adapter=new ArrayAdapter<>(this, android.R.layout.simple_list_item_1,days);
myListView.setAdapter(adapter);
myListView.setOnItemClickListener(onItemClick(parent, view, position, id) -> {
Toast.makeText(MainActivity.this,"DAY "+position+" WEAK",Toast.LENGTH_SHORT).show();
});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<?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:id="@+id/main"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="40dp"
tools:context=".MainActivity">
<ListView
android:id="@+id/myListView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.0" />
</androidx.constraintlayout.widget.ConstraintLayout>
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local.properties
settings.gradle.kts
Default_Alternative
dynamicFragments
Form_Page
package com.example.customadapter;
import ...
public class MainActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
ArrayList<String> fruits=new ArrayList<>();
fruits.add("Apple");
fruits.add("Orange");
ArrayList<Integer> img=new ArrayList<>();
img.add(R.drawable.apple);
img.add(R.drawable.orange);
CustomBaseAdapter customBaseAdapter=new CustomBaseAdapter(getBaseContext(),fruits,img);
ListView listview=findViewById(R.id.myListView);
listview.setAdapter(customBaseAdapter);
}
}
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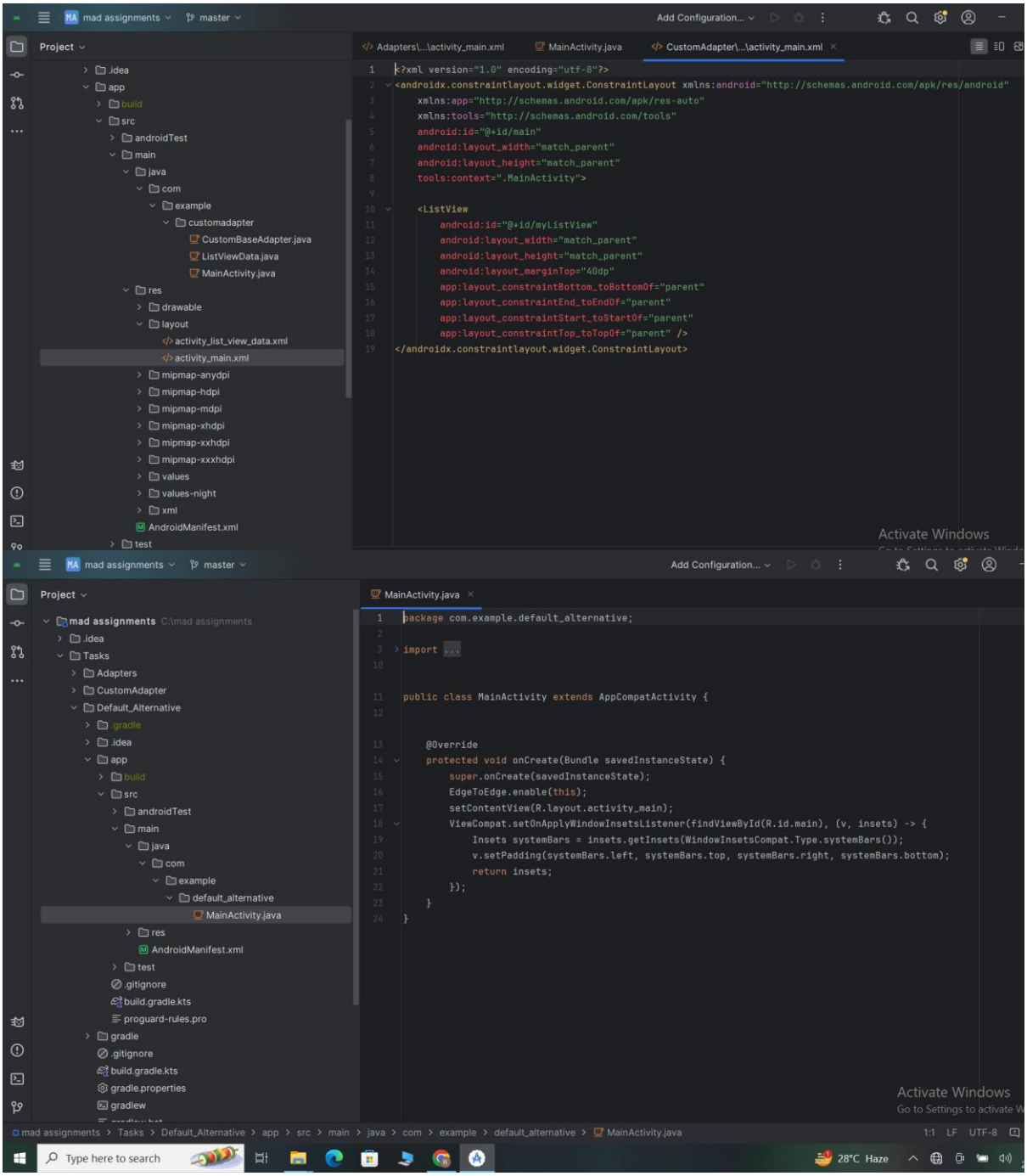
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xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/main"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<ListView
android:id="@+id/myListView"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:layout_marginTop="40dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
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package com.example.default_alternative;
import ...
public class MainActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
setContentView(R.layout.activity_main);
ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
return insets;
});
}
}
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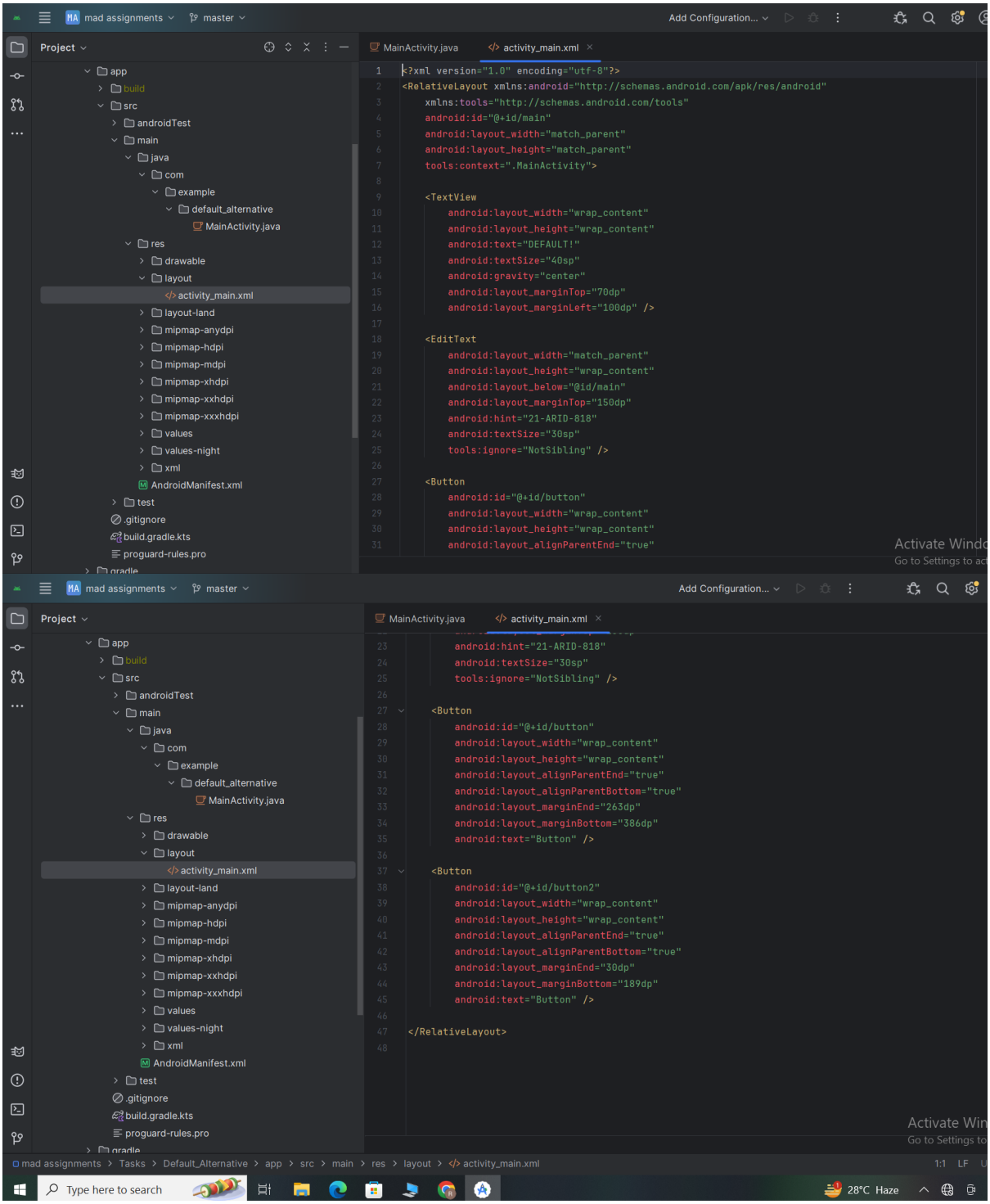
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<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/main"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="DEFAULT!"
android:textSize="40sp"
android:gravity="center"
android:layout_marginTop="70dp"
android:layout_marginLeft="100dp" />
<EditText
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_below="@id/main"
android:layout_marginTop="150dp"
android:hint="21-ARID-818"
android:textSize="30sp"
tools:ignore="NotSibling" />
<Button
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="263dp"
android:layout_marginBottom="386dp"
android:text="Button" />
<Button
android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="30dp"
android:layout_marginBottom="189dp"
android:text="Button" />
</RelativeLayout>
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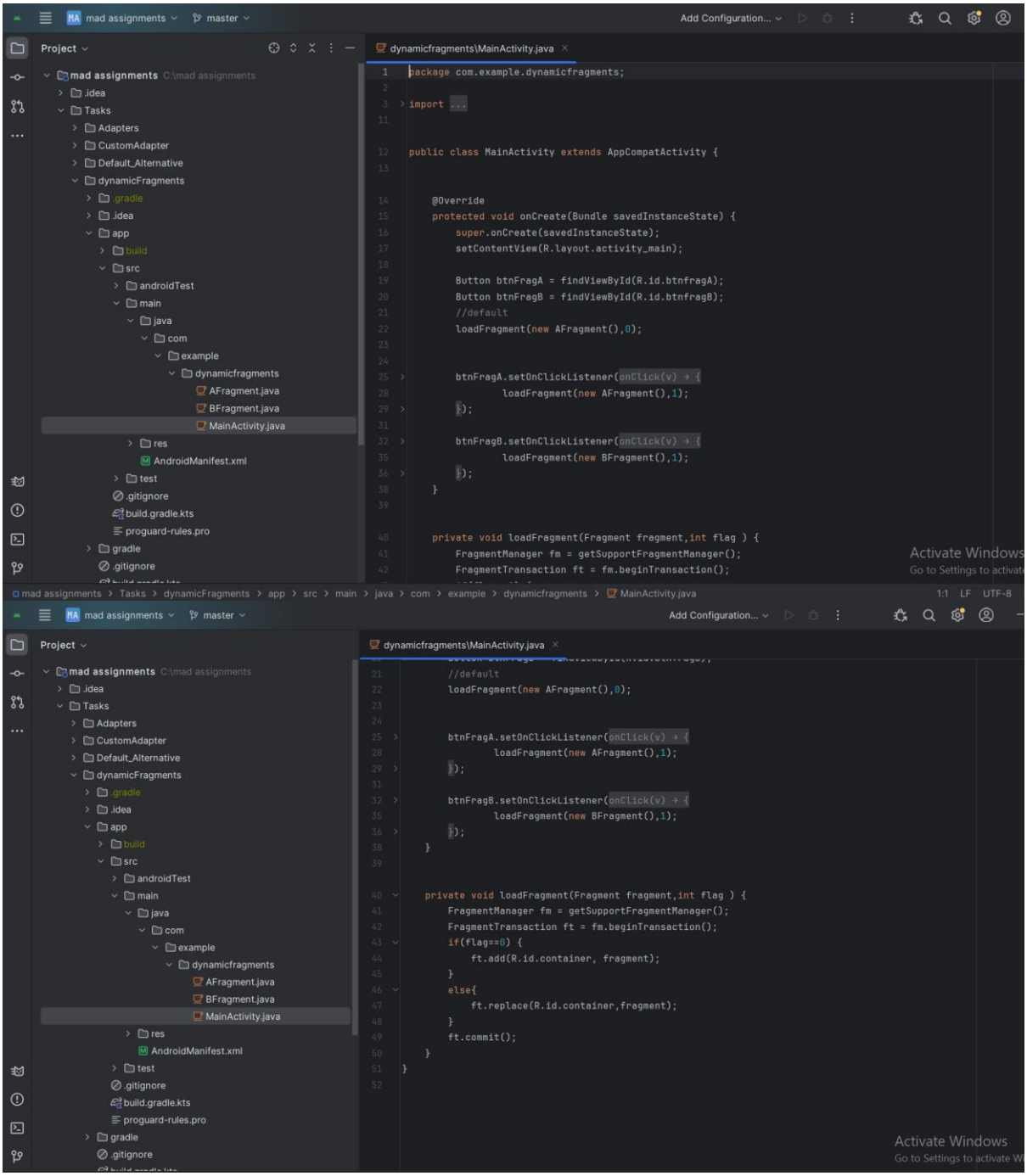
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dynamicfragments\MainActivity.java
package com.example.dynamicfragments;
import ...
public class MainActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
Button btnFragA = findViewById(R.id.btnfragA);
Button btnFragB = findViewById(R.id.btnfragB);
//default
loadFragment(new AFragment(),0);
btnFragA.setOnClickListener(onClick(v) -> {
loadFragment(new AFragment(),1);
});
btnFragB.setOnClickListener(onClick(v) -> {
loadFragment(new BFragment(),1);
});
}
private void loadFragment(Fragment fragment,int flag) {
FragmentManager fm = getSupportFragmentManager();
FragmentTransaction ft = fm.beginTransaction();
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dynamicfragments\MainActivity.java
//default
loadFragment(new AFragment(),0);
btnFragA.setOnClickListener(onClick(v) -> {
loadFragment(new AFragment(),1);
});
btnFragB.setOnClickListener(onClick(v) -> {
loadFragment(new BFragment(),1);
});
}
private void loadFragment(Fragment fragment,int flag) {
FragmentManager fm = getSupportFragmentManager();
FragmentTransaction ft = fm.beginTransaction();
if(flag==0) {
ft.add(R.id.container, fragment);
}
else{
ft.replace(R.id.container,fragment);
}
ft.commit();
}
}
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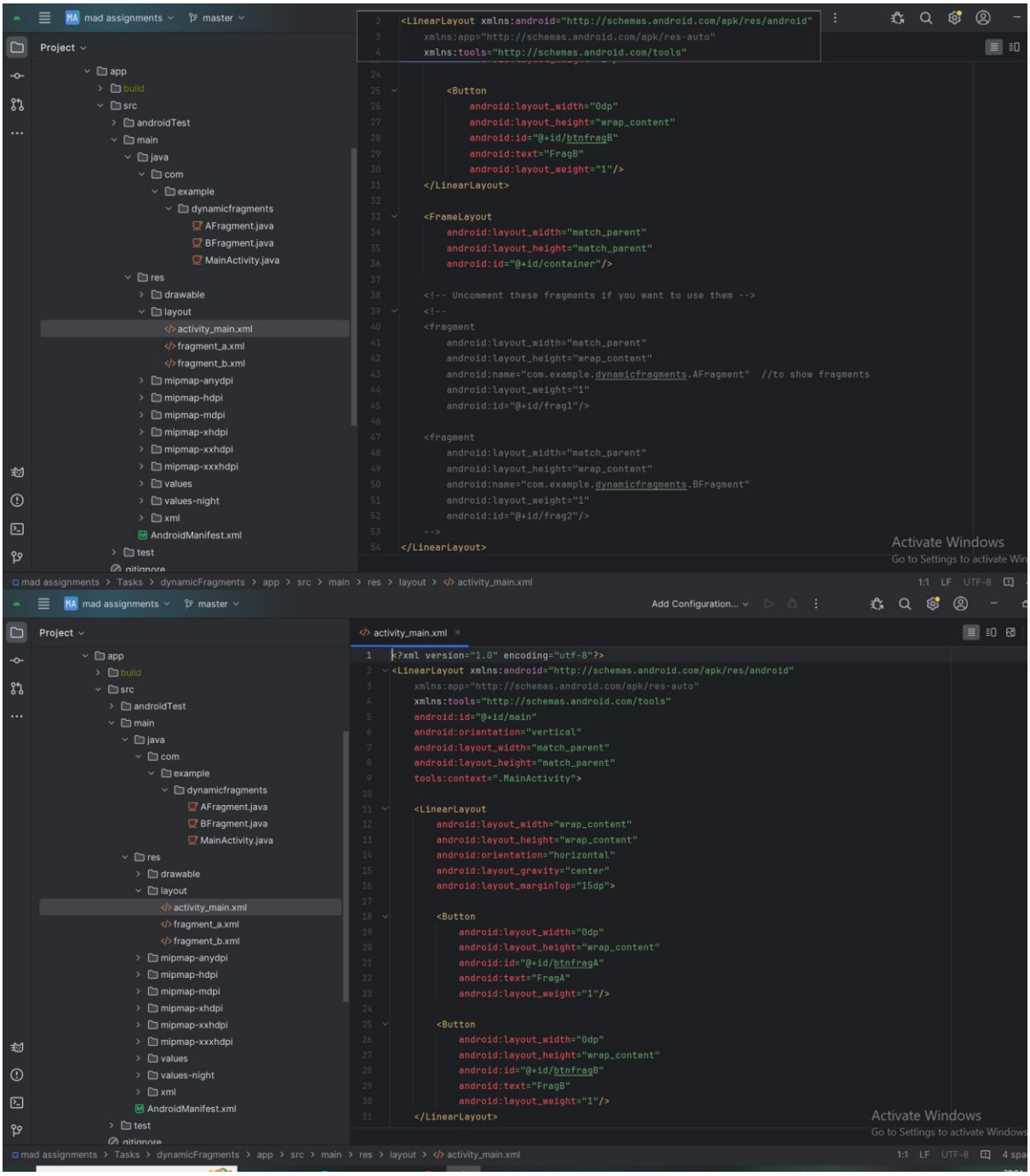
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<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
<Button
android:layout_width="0dp"
android:layout_height="wrap_content"
android:id="@+id/btnfragB"
android:text="FragB"
android:layout_weight="1"/>
</LinearLayout>
<FrameLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:id="@+id/container"/>
<!-- Uncomment these fragments if you want to use them -->
<!--
<fragment
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:name="com.example.dynamicfragments.AFragment" //to show fragments
android:layout_weight="1"
android:id="@+id/frag1"/>
<fragment
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:name="com.example.dynamicfragments.BFragment"
android:layout_weight="1"
android:id="@+id/frag2"/>
-->
</LinearLayout>
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<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
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xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/main"
android:orientation="vertical"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<LinearLayout
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:orientation="horizontal"
android:layout_gravity="center"
android:layout_marginTop="15dp">
<Button
android:layout_width="0dp"
android:layout_height="wrap_content"
android:id="@+id/btnfragA"
android:text="FragA"
android:layout_weight="1"/>
<Button
android:layout_width="0dp"
android:layout_height="wrap_content"
android:id="@+id/btnfragB"
android:text="FragB"
android:layout_weight="1"/>
</LinearLayout>
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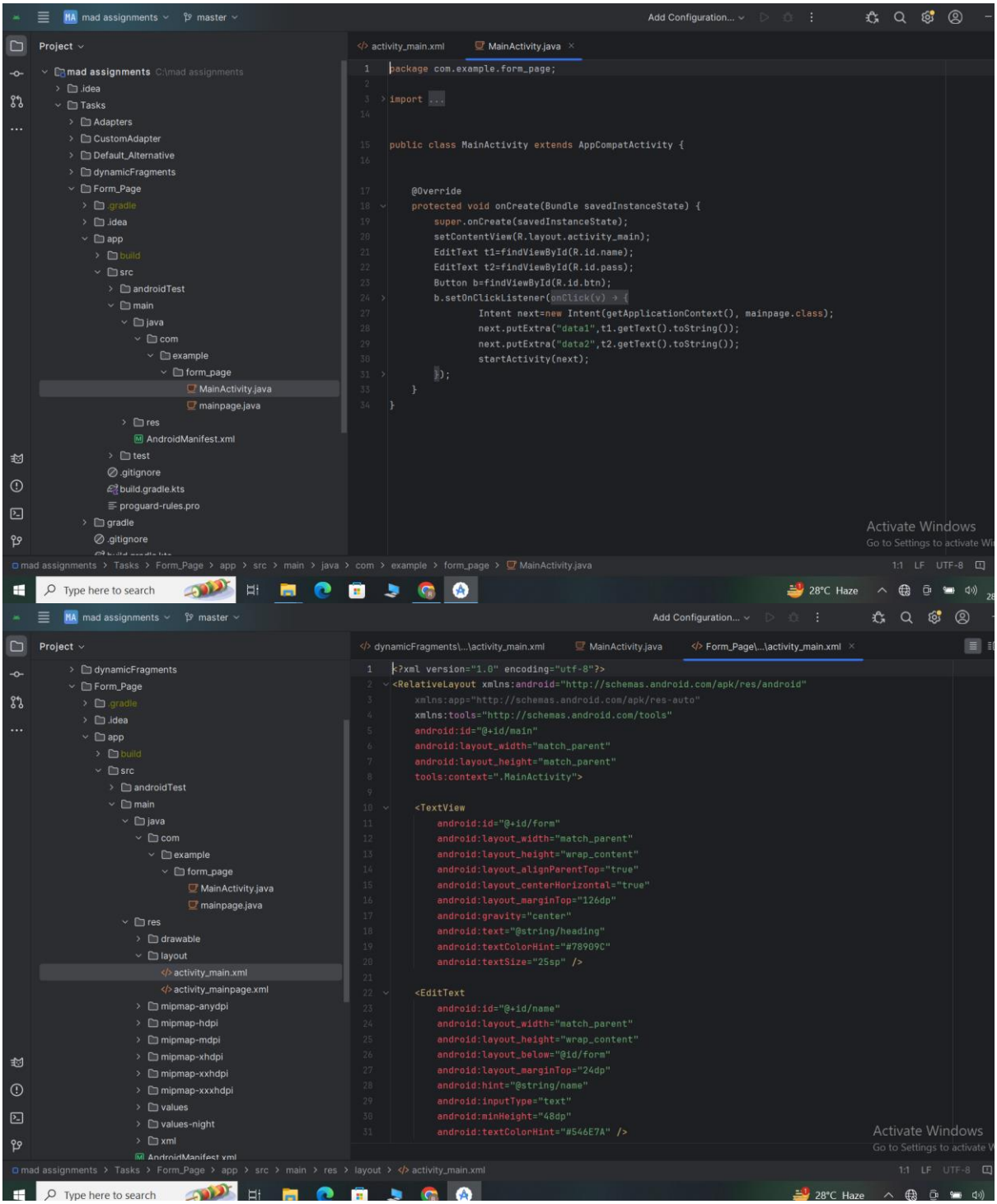
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MainActivity.java
package com.example.form_page;
import ...
public class MainActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
EditText t1=findViewById(R.id.name);
EditText t2=findViewById(R.id.pass);
Button b=findViewById(R.id.btn);
b.setOnClickListener(onClick(v) → {
Intent next=new Intent(getApplicationContext(), mainpage.class);
next.putExtra("data1",t1.getText().toString());
next.putExtra("data2",t2.getText().toString());
startActivity(next);
});
}
}
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<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:id="@+id/main"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<TextView
android:id="@+id/form"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_centerHorizontal="true"
android:layout_marginTop="126dp"
android:gravity="center"
android:text="@string/heading"
android:textColorHint="#78909C"
android:textSize="25sp" />
<EditText
android:id="@+id/name"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_below="@id/form"
android:layout_marginTop="24dp"
android:hint="@string/name"
android:inputType="text"
android:minHeight="48dp"
android:textColorHint="#546E7A" />
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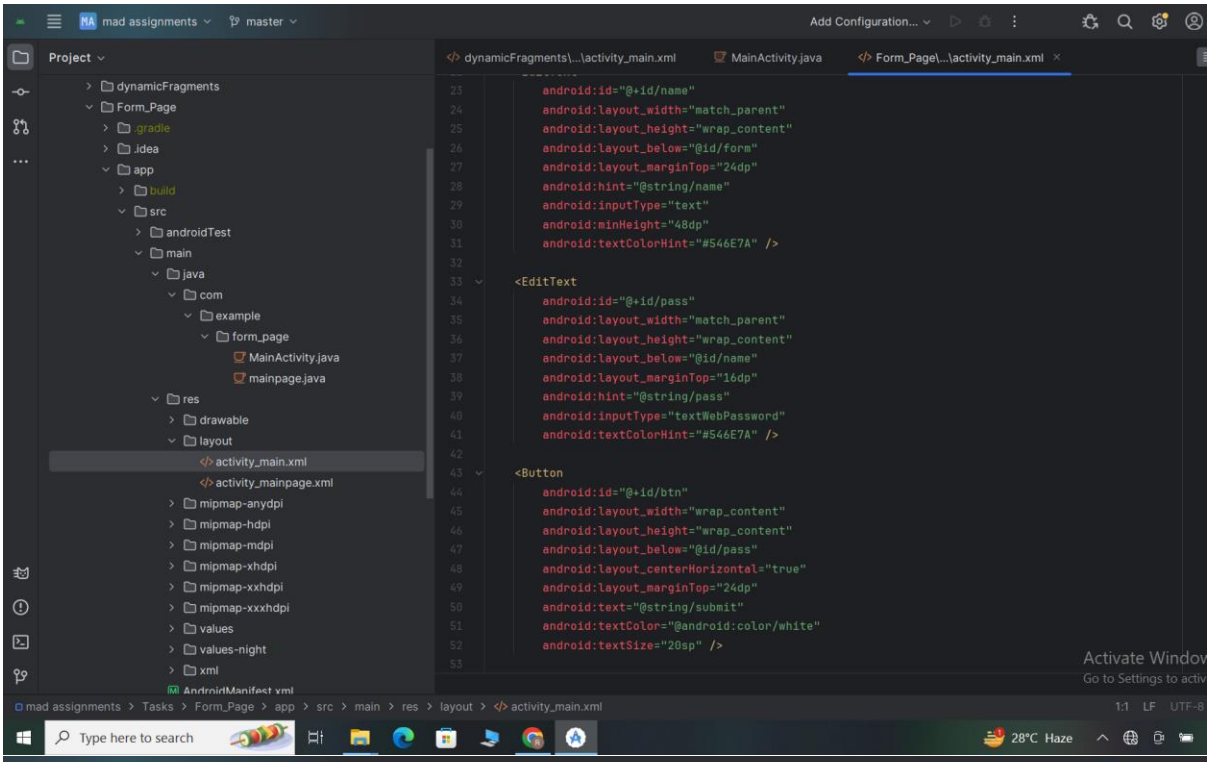
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android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_below="@id/form"
android:layout_marginTop="24dp"
android:hint="@string/name"
android:inputType="text"
android:minHeight="48dp"
android:textColorHint="#546E7A" />
<EditText
android:id="@+id/pass"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_below="@id/name"
android:layout_marginTop="16dp"
android:hint="@string/pass"
android:inputType="textWebPassword"
android:textColorHint="#546E7A" />
<Button
android:id="@+id/btn"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@id/pass"
android:layout_centerHorizontal="true"
android:layout_marginTop="24dp"
android:text="@string/submit"
android:textColor="@android:color/white"
android:textSize="20sp" />
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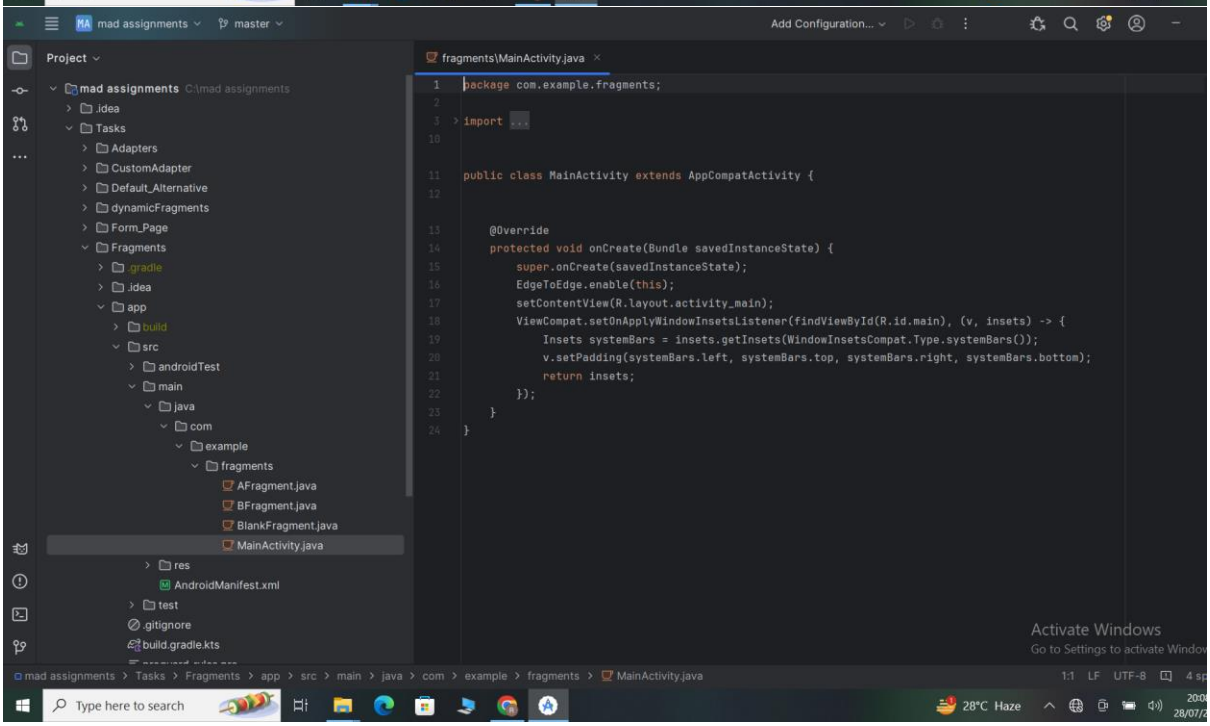
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package com.example.fragments;
import ...
public class MainActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
setContentView(R.layout.activity_main);
ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
return insets;
});
}
}
Activate Windows
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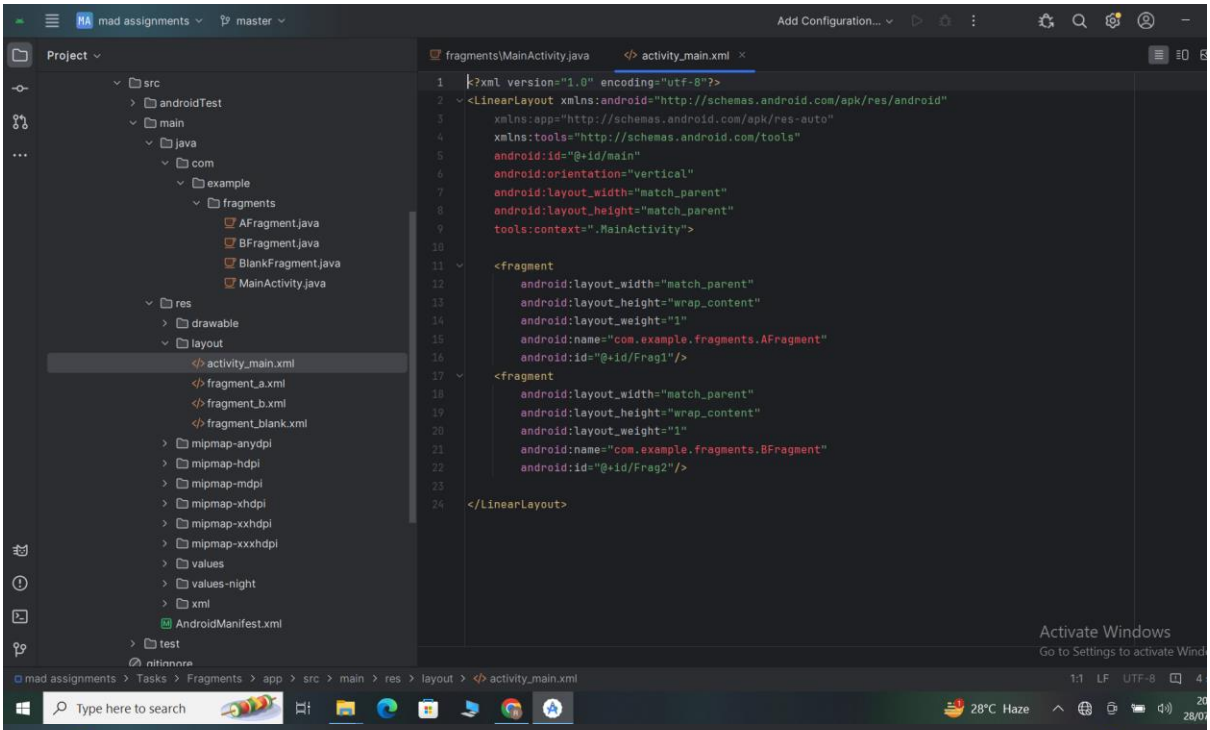
mad assignments > Tasks > Fragments > app > src > main > java > com > example > fragments > MainActivity.java
1:1 LF UTF-8
Type here to search
28°C Haze


mad assignments
master
Add Configuration...
Project
src
androidTest
main
java
com
example
fragments
AFragment.java
BFragment.java
BlankFragment.java
MainActivity.java
res
drawable
layout
activity_main.xml
fragment_a.xml
fragment_b.xml
fragment_blank.xml
mipmap-anydpi
mipmap-hdpi
mipmap-mdpi
mipmap-xhdpi
mipmap-xxhdpi
mipmap-xxxhdpi
values
values-night
xml
AndroidManifest.xml
test
fragments\MainActivity.java
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:id="@+id/main"
android:orientation="vertical"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<fragment
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_weight="1"
android:name="com.example.fragments.AFragment"
android:id="@+id/Frag1"/>
<fragment
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_weight="1"
android:name="com.example.fragments.BFragment"
android:id="@+id/Frag2"/>
</LinearLayout>
Activate Windows
Go to Settings to activate Windows
mad assignments > Tasks > Fragments > app > src > main > res > layout > activity_main.xml
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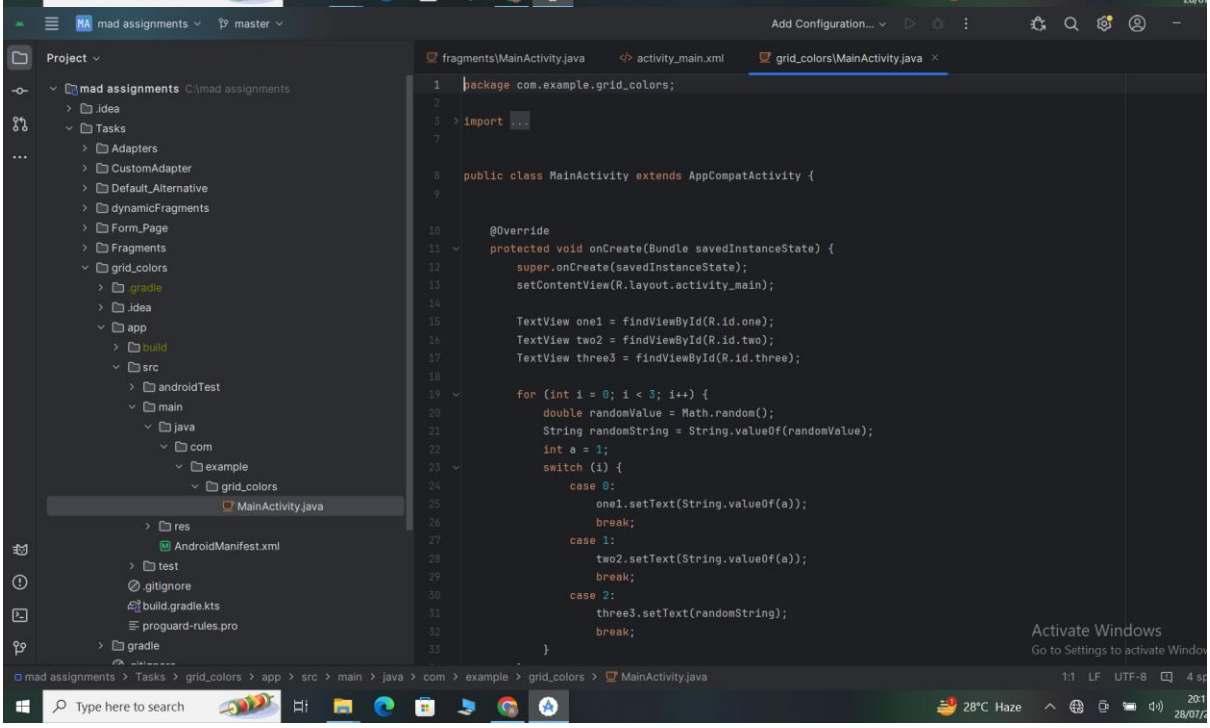
mad assignments
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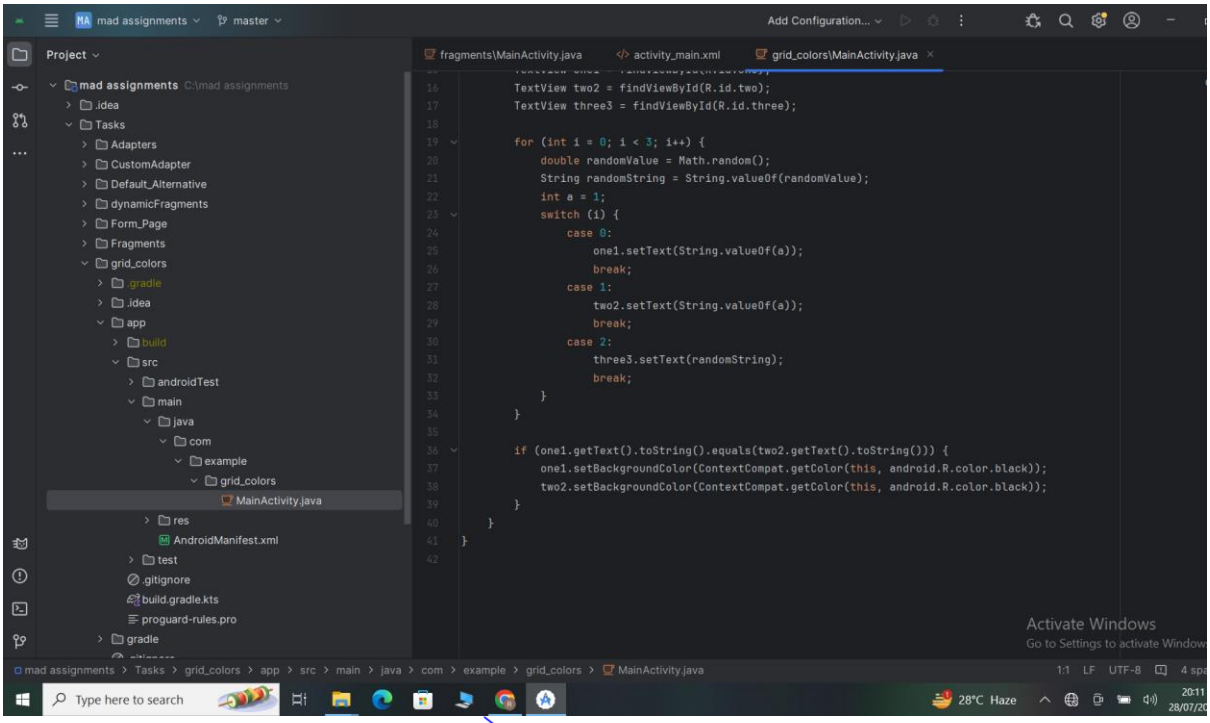
Project
mad assignments C:\mad assignments
.idea
Tasks
Adapters
CustomAdapter
Default_Alternative
dynamicFragments
Form_Page
Fragments
grid_colors
.gradle
.idea
app
build
src
androidTest
main
java
com
example
grid_colors
MainActivity.java
res
AndroidManifest.xml
test
.gitignore
build.gradle.kts
proguard-rules.pro
gradle
fragments\MainActivity.java
activity_main.xml
grid_colors\MainActivity.java
package com.example.grid_colors;
import ...
public class MainActivity extends AppCompatActivity {
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
TextView one1 = findViewById(R.id.one);
TextView two2 = findViewById(R.id.two);
TextView three3 = findViewById(R.id.three);
for (int i = 0; i < 3; i++) {
double randomValue = Math.random();
String randomString = String.valueOf(randomValue);
int a = 1;
switch (i) {
case 0:
one1.setText(String.valueOf(a));
break;
case 1:
two2.setText(String.valueOf(a));
break;
case 2:
three3.setText(randomString);
break;
}
Activate Windows
Go to Settings to activate Windows
mad assignments > Tasks > grid_colors > app > src > main > java > com > example > grid_colors > MainActivity.java
1:1 LF UTF-8
Type here to search
28°C Haze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Adapters
CustomAdapter
Default_Alternative
dynamicFragments
Form_Page
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grid_colors
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com
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grid_colors
MainActivity.java
res
AndroidManifest.xml
test
.gitignore
build.gradle.kts
proguard-rules.pro
gradle
fragments\MainActivity.java
activity_main.xml
grid_colors\MainActivity.java
TextView two2 = findViewById(R.id.two);
TextView three3 = findViewById(R.id.three);
for (int i = 0; i < 3; i++) {
double randomValue = Math.random();
String randomString = String.valueOf(randomValue);
int a = 1;
switch (i) {
case 0:
one1.setText(String.valueOf(a));
break;
case 1:
two2.setText(String.valueOf(a));
break;
case 2:
three3.setText(randomString);
break;
}
}
if (one1.getText().toString().equals(two2.getText().toString())) {
one1.setBackgroundColor(ContextCompat.getColor(this, android.R.color.black));
two2.setBackgroundColor(ContextCompat.getColor(this, android.R.color.black));
}
}
}
Activate Windows
Go to Settings to activate Windows
mad assignments > Tasks > grid_colors > app > src > main > java > com > example > grid_colors > MainActivity.java
1:1 LF UTF-8
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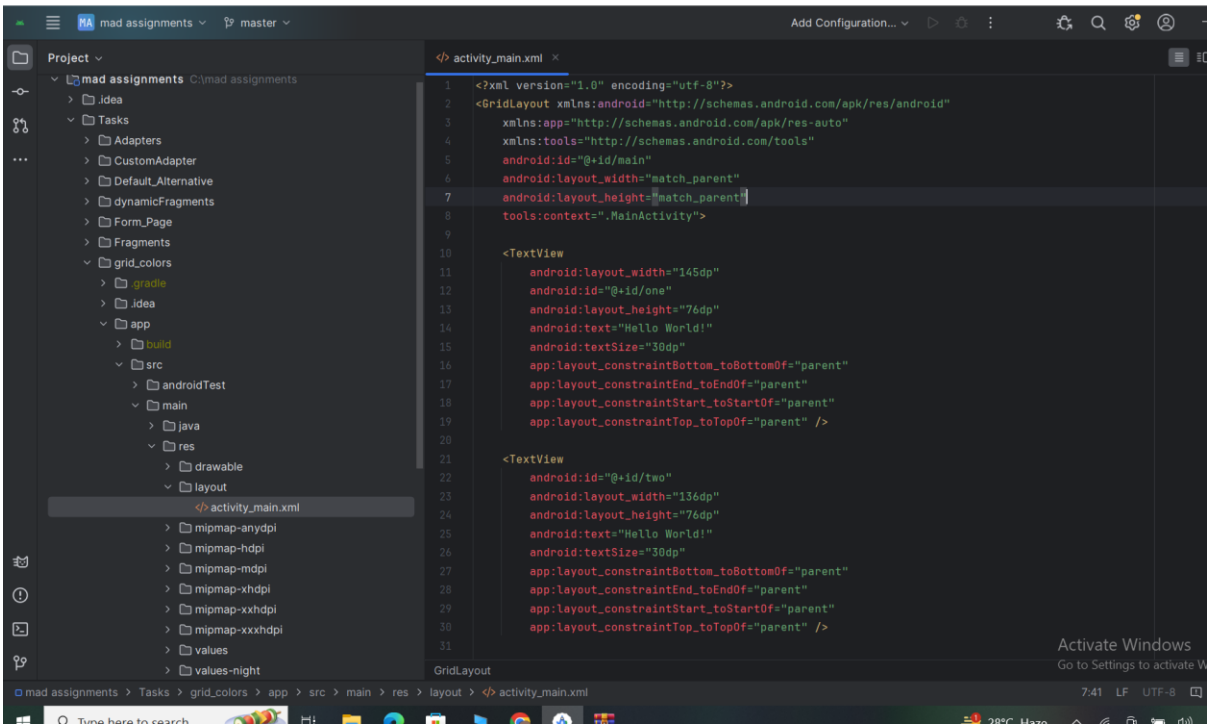
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Add Configuration...
Project
mad assignments C:\mad assignments
.idea
Tasks
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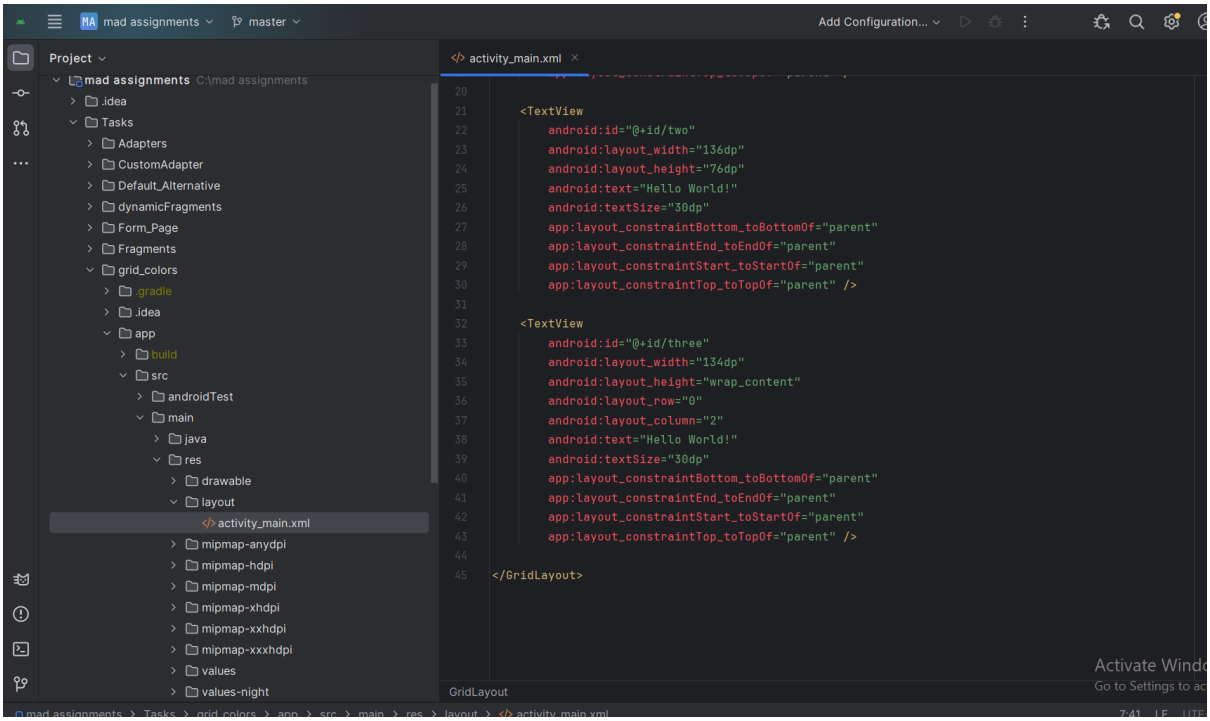
mipmap-anydpi
mipmap-hdpi
mipmap-mdpi
mipmap-xhdpi
mipmap-xxhdpi
mipmap-xxxhdpi
values
values-night
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<GridLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/main"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">
<TextView
android:layout_width="145dp"
android:id="@+id/one"
android:layout_height="76dp"
android:text="Hello World!"
android:textSize="30dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<TextView
android:id="@+id/two"
android:layout_width="136dp"
android:layout_height="76dp"
android:text="Hello World!"
android:textSize="30dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
GridLayout
Activate Windows
mad assignments > Tasks > grid_colors > app > src > main > res > layout > activity_main.xml
7:41 LF UTF-8



the screenshots of the frontend code here.)

- **Backend Code Screenshots:**
  (Attached the screenshots of the backend code here.)

Additional Notes:

- The technology used for this assignment includes XML and Java.