Assignment1 - Q1

Addition in android studio

```
xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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">
  <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="296dp"
    android:layout_marginBottom="377dp"
    android:text="Add"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.117"
    app:layout_constraintStart_toStartOf="parent"
    tools:layout_editor_absoluteY="284dp" />
  <EditText
    android:id="@+id/val1"
```

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="176dp"
android:layout_marginBottom="568dp"
android:ems="10"
android:inputType="textPersonName"
android:text=""
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.164"
app:layout_constraintStart_toStartOf="parent"
tools:layout_editor_absoluteY="75dp" />

<EditText

android:id="@+id/val2"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_alignParentEnd="true"

android:layout_alignParentBottom="true"

android:layout_marginEnd="179dp"

android:layout_marginBottom="499dp"

android:ems="10"

android:inputType="textPersonName"

android:text=""

app:layout_constraintEnd_toEndOf="parent"

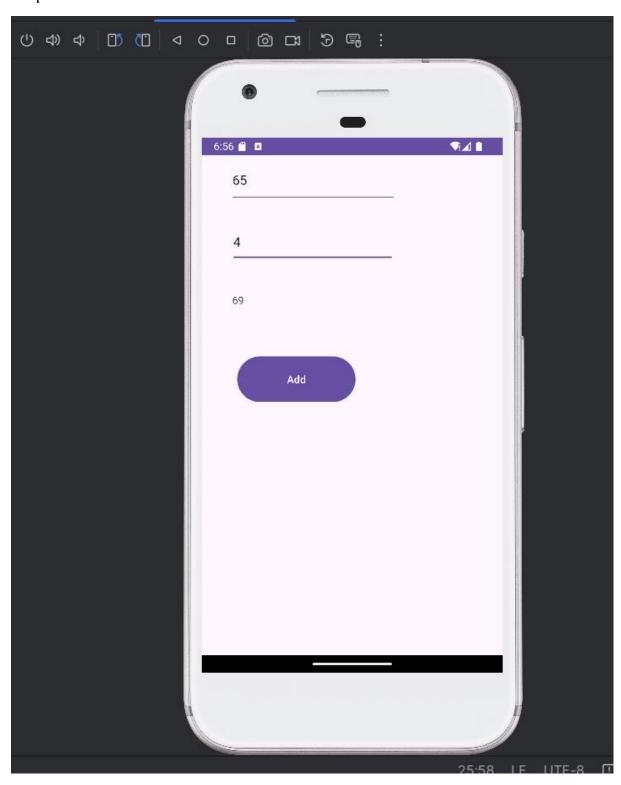
app:layout_constraintHorizontal_bias="0.164"

app:layout_constraintStart_toStartOf="parent"

tools:layout_editor_absoluteY="143dp" />

```
<TextView
    android:id="@+id/result"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="383dp"
    android:layout_marginBottom="446dp"
    android:text=""
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.093"
    app:layout_constraintStart_toStartOf="parent"
    tools:layout_editor_absoluteY="221dp" />
</RelativeLayout>
MainActivity.java
package com.example.a17_07_2024_androidlecture;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  EditText ed1=(EditText) findViewById(R.id.val1);
  EditText ed2=(EditText) findViewById(R.id.val2);
  TextView te=(TextView) findViewById(R.id.result);
  Button b=(Button) findViewById(R.id.button);
  b.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
      int a = Integer.parseInt(ed1.getText().toString());
      int b = Integer.parseInt(ed2.getText().toString());
      int res;
      res=a+b;
      String s;
      s=Integer.toString(res);
      te.setText(s);
    }
  });
}
```



Basic Calculator in Android Studio

```
Xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
 tools:context=".MainActivity">
  <EditText
    android:id="@+id/val1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:hint="Value 1"
    android:inputType="number"
    android:layout_marginTop="50dp"
    android:layout_centerHorizontal="true"/>
  <EditText
    android:id="@+id/val2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:hint="Value 2"
    android:inputType="number"
    android:layout_below="@id/val1"
    android:layout_marginTop="20dp"
```

```
android:layout_centerHorizontal="true"/>
```

```
<TextView
 android:id="@+id/res"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Result"
 android:textSize="20sp"
 android:layout_below="@id/val2"
 android:layout_marginTop="20dp"
 android:layout_centerHorizontal="true"/>
<Button
 android:id="@+id/button_add"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Add"
 android:layout_below="@id/res"
 android:layout_marginTop="20dp"
 android:layout_centerHorizontal="true"/>
<Button
 android:id="@+id/button_sub"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Subtract"
 android:layout_below="@id/button_add"
 android:layout_marginTop="10dp"
 android:layout_centerHorizontal="true"/>
```

```
<Button
```

```
android:id="@+id/button_mul"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:text="Multiply"

android:layout_below="@id/button_sub"

android:layout_marginTop="10dp"

android:layout_centerHorizontal="true"/>
```

<Button

```
android:id="@+id/button_div"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:text="Divide"

android:layout_below="@id/button_mul"

android:layout_marginTop="10dp"

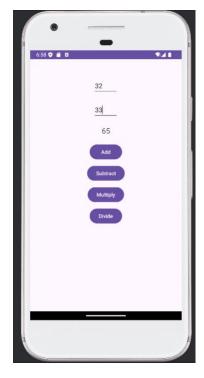
android:layout_centerHorizontal="true"/>
```

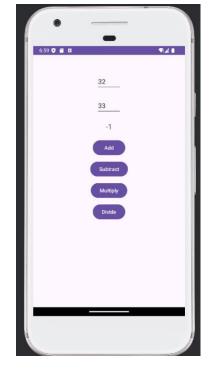
</RelativeLayout>

```
MainActivity.java
package com.example.assignment2;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  @Override
 protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    EditText ed1 = (EditText) findViewById(R.id.val1);
    EditText ed2 = (EditText) findViewById(R.id.val2);
    TextView te = (TextView) findViewById(R.id.res);
    Button addButton = (Button) findViewById(R.id.button_add);
    Button subButton = (Button) findViewById(R.id.button_sub);
    Button mulButton = (Button) findViewById(R.id.button_mul);
    Button divButton = (Button) findViewById(R.id.button_div);
    addButton.setOnClickListener(new View.OnClickListener() {
      @Override
     public void onClick(View view) {
```

```
int a = Integer.parseInt(ed1.getText().toString());
    int b = Integer.parseInt(ed2.getText().toString());
    int res = a + b;
    te.setText(Integer.toString(res));
  }
});
subButton.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
    int a = Integer.parseInt(ed1.getText().toString());
    int b = Integer.parseInt(ed2.getText().toString());
    int res = a - b;
    te.setText(Integer.toString(res));
 }
});
mulButton.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
    int a = Integer.parseInt(ed1.getText().toString());
    int b = Integer.parseInt(ed2.getText().toString());
    int res = a * b;
    te.setText(Integer.toString(res));
  }
});
divButton.setOnClickListener(new View.OnClickListener() {
  @Override
```

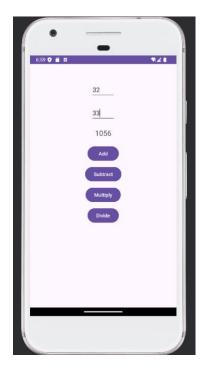
```
public void onClick(View view) {
    int a = Integer.parseInt(ed1.getText().toString());
    int b = Integer.parseInt(ed2.getText().toString());
    if (b!=0) {
        int res = a / b;
        te.setText(Integer.toString(res));
    } else {
        te.setText("Cannot divide by zero");
    }
}
});
}
```

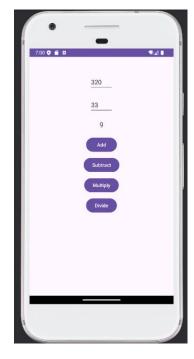




Addition

Subtraction





Multiplication

Divide

Activity Lifecycle operations

```
Xml
<?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="match_parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

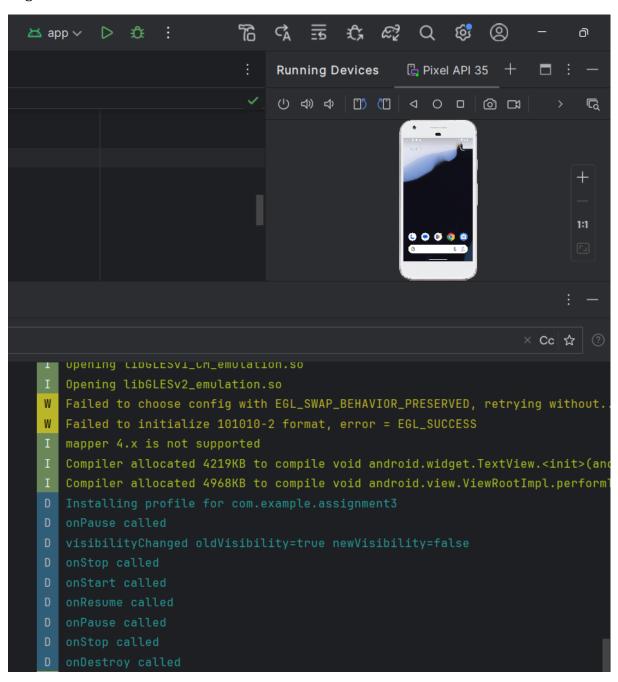
</androidx.constraintlayout.widget.ConstraintLayout>

```
MainActicity.java
package com.example.assignment3;
import android.os.Bundle;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
import android.util.Log;
public class MainActivity extends AppCompatActivity {
 private static final String msg = "MainActivity";
  @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;
   });
```

```
Log.d(msg, "onCreate called");
}
@Override
protected void onStart() {
  super.onStart();
 Log.d(msg, "onStart called");
}
@Override
protected void onResume() {
  super.onResume();
  Log.d(msg, "onResume called");
}
@Override
protected void onPause() {
  super.onPause();
  Log.d(msg, "onPause called");
}
@Override
protected void onStop() {
  super.onStop();
  Log.d(msg, "onStop called");
}
@Override
protected void onDestroy() {
```

```
super.onDestroy();
Log.d(msg, "onDestroy called");
}
```

Logcat



```
Xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 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">
  <EditText
    android:id="@+id/val1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="184dp"
    android:layout_marginBottom="542dp"
    android:ems="10"
    android:inputType="text"
    android:text=""
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="41dp"
    tools:layout_editor_absoluteY="62dp" />
  <EditText
    android:id="@+id/val2"
```

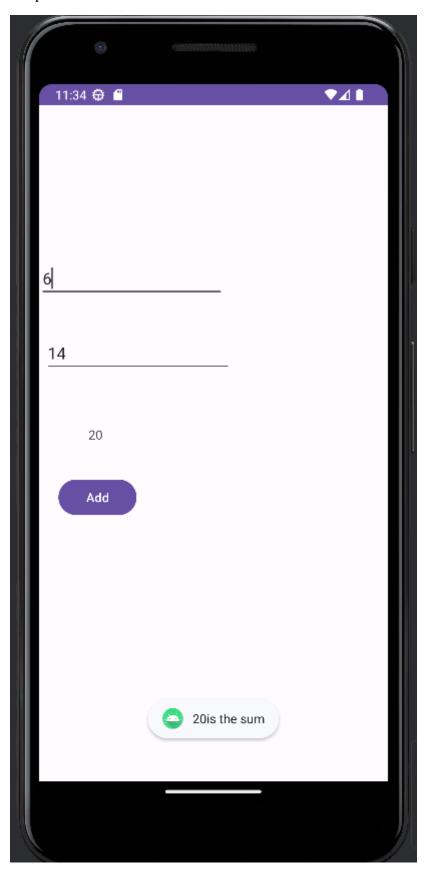
```
android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_alignParentEnd="true"
 android:layout_alignParentBottom="true"
 android:layout_marginEnd="176dp"
 android:layout_marginBottom="458dp"
 android:ems="10"
 android:inputType="text"
 android:text=""
 tools:ignore="MissingConstraints"
 tools:layout_editor_absoluteX="42dp"
 tools:layout_editor_absoluteY="141dp" />
<TextView
 android:id="@+id/res"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_alignParentEnd="true"
 android:layout_alignParentBottom="true"
 android:layout_marginEnd="321dp"
 android:layout_marginBottom="380dp"
 android:text=""
 tools:ignore="MissingConstraints"
 tools:layout_editor_absoluteX="43dp"
 tools:layout_editor_absoluteY="224dp" />
<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="283dp"
android:layout_marginBottom="295dp"
android:text="Add"
tools:ignore="MissingConstraints"
tools:layout_editor_absoluteX="34dp"
tools:layout_editor_absoluteY="304dp" />
</RelativeLayout>

```
MainActivity.java
package com.example.myapplication;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
     EditText ed1=(EditText) findViewById(R.id.val1);
     EditText ed2=(EditText) findViewById(R.id.val2);
     TextView te=(TextView) findViewById(R.id.res);
     Button b=(Button) findViewById(R.id.button);
     b.setOnClickListener(new View.OnClickListener() {
```

```
@Override
public void onClick(View view) {
    int a=Integer.parseInt(ed1.getText().toString());
    int b=Integer.parseInt(ed2.getText().toString());
    int res;
    res = a+b;
    String s;
    s=Integer.toString(res);
    te.setText(s);

    Toast.makeText(MainActivity.this,s+"is the sum",Toast.LENGTH_SHORT).show();
    }
});
});
}
```



```
Xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 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">
  <EditText
    android:id="@+id/val1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="184dp"
    android:layout_marginBottom="542dp"
    android:ems="10"
    android:inputType="text"
    android:text=""
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="41dp"
    tools:layout_editor_absoluteY="62dp" />
```

```
android:id="@+id/res"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="321dp"
android:layout_marginBottom="380dp"
android:text=""
tools:ignore="MissingConstraints"
tools:layout_editor_absoluteX="43dp"
tools:layout_editor_absoluteY="224dp" />
```

<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="283dp"

android:layout_marginBottom="295dp"

android:text="Check"

tools:ignore="MissingConstraints"

tools:layout_editor_absoluteX="34dp"

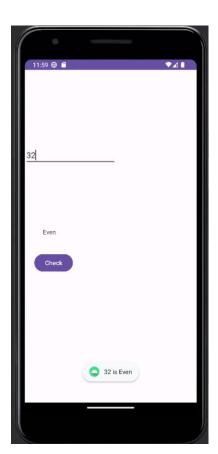
tools:layout_editor_absoluteY="304dp" />

</RelativeLayout>
```

```
MainActivity.java
package com.example.myapplication;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
 private EditText ed1;
 private TextView te;
 @Override
 protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
    ed1 = findViewById(R.id.val1);
    te = findViewById(R.id.res);
    Button b = findViewById(R.id.button);
    b.setOnClickListener(new View.OnClickListener() {
      @Override
     public void onClick(View view) {
```

```
String input = ed1.getText().toString().trim(); // Trim to remove any
leading/trailing spaces
        if (!input.isEmpty()) {
          try {
            int number = Integer.parseInt(input);
            String result = (number % 2 == 0)? "Even" : "Odd";
            te.setText(result);
            Toast.makeText(MainActivity.this, number + " is " + result,
Toast.LENGTH_SHORT).show();
          } catch (NumberFormatException e) {
            Toast.makeText(MainActivity.this, "Invalid number format",
Toast.LENGTH_SHORT).show();
         }
        } else {
          Toast.makeText(MainActivity.this, "Please enter a number",
Toast.LENGTH_SHORT).show();
       }
      }
   });
 }
}
```





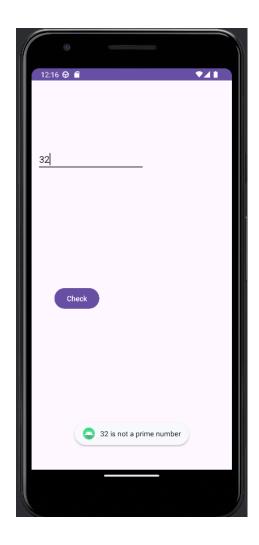
Odd Even

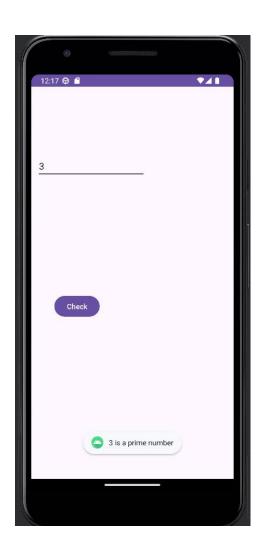
```
Xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
  android:id="@+id/main"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <EditText
    android:id="@+id/val1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="171dp"
    android:layout_marginBottom="583dp"
    android:ems="10"
    android:inputType="text"
    android:text=""
    tools:layout_editor_absoluteX="44dp"
    tools:layout_editor_absoluteY="90dp" />
  <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="260dp"
    android:layout_marginBottom="310dp"
    android:text="Check"
    tools:layout_editor_absoluteX="60dp"
    tools:layout_editor_absoluteY="307dp" />
</RelativeLayout>
MainActivity.java
package com.example.a20_07_2024;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
 private EditText e;
 private Button b;
  @Override
```

```
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  e = findViewById(R.id.val1);
  b = findViewById(R.id.button);
  b.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
      String numberStr = e.getText().toString().trim();
      if (!numberStr.isEmpty()) {
        int number = Integer.parseInt(numberStr);
        if (isPrime(number)) {
          showToast(number + " is a prime number");
        } else {
          showToast(number + " is not a prime number");
        }
      } else {
        showToast("Please enter a number");
      }
    }
 });
}
private boolean isPrime(int n) {
  if (n \le 1) {
    return false;
  }
```

```
if (n \le 3) {
      return true;
    }
    if (n \% 2 == 0 || n \% 3 == 0) {
      return false;
    }
    for (int i = 5; i * i <= n; i += 6) {
      if (n \% i == 0 || n \% (i + 2) == 0) {
        return false;
      }
    }
    return true;
  }
  private void showToast(String message) {
    Toast.makeText(this, message, Toast.LENGTH_SHORT).show();
  }
}
```





```
Xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 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">
  <Button
    android:id="@+id/color_b"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="248dp"
    android:layout_marginBottom="410dp"
    android:text="BG Color"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="77dp"
    tools:layout_editor_absoluteY="316dp" />
  <Button
    android:id="@+id/image_b"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
```

```
android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="105dp"
    android:layout_marginBottom="414dp"
    android:text="BG Image"
    tools:ignore="MissingConstraints"
    tools:layout_editor_absoluteX="231dp"
    tools:layout_editor_absoluteY="316dp" />
</RelativeLayout>
MainActicity.java
package com.example.a22_07_2024;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  Button b1=(Button) findViewById(R.id.color_b);
  Button b2=(Button) findViewById(R.id.image_b);
  RelativeLayout r=(RelativeLayout) findViewById(R.id.main);
  b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
      r.setBackgroundColor(Color.RED);
   }
  });
  b2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
      r.setBackgroundResource(R.drawable.ronaldo);
   }
  });
}
```

}







Assignment Q8

```
Xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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"
  android:orientation="vertical"
  tools:context=".MainActivity"
  tools:ignore="DisableBaselineAlignment">
  <fragment
    android:id="@+id/frag1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    tools:ignore="FragmentTagUsage"
    android:name="com.example.a23_07_2024.first_fragment"
    />
  <fragment
    android:id="@+id/frag2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    tools:ignore="FragmentTagUsage"
```

```
</LinearLayout>
MainActivity.java
package com.example.a23_07_2024;
import android.os.Bundle;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
 }
}
fragment_first_fragment.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
```

```
tools:context=".first_fragment"
  android:orientation="vertical"
  android:background="#673AB7">
 <!-- TODO: Update blank fragment layout -->
  <TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:text="My first fragment"
    android:id="@+id/fragmentxml1"/>
</LinearLayout>
fragment_second_fragment.xml
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context=".second_fragment"
  android:orientation="vertical"
 android:background="#FF5722"
  <!-- TODO: Update blank fragment layout -->
  <TextView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
```

android:text="My second fragment"
android:id="@+id/fragmentxml2"/>

</FrameLayout>

```
first_fragment.java
package com.example.a23_07_2024;
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
public class first_fragment extends Fragment {
  public first_fragment() {
    // Required empty public constructor
 }
  @Override
  public View on Create View (Layout Inflater inflater, View Group container,
               Bundle savedInstanceState) {
    // Inflate the layout for this fragment
    View view = inflater.inflate(R.layout.fragment_first_fragment, container, false);
    return view;
  }
```

```
second_fragment.java
package com.example.a23_07_2024;
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
public class second_fragment extends Fragment {
  public second_fragment() {
   // Required empty public constructor
 }
  @Override
  public View on Create View (Layout Inflater inflater, View Group container,
              Bundle savedInstanceState) {
    // Inflate the layout for this fragment
    View view = inflater.inflate(R.layout.fragment_second_fragment, container, false);
    return view;
 }
}
```



Assignment Q9

```
MainActivity.java
package com.example.assignment9;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentTransaction;
public class MainActivity extends AppCompatActivity {
 Button btnA,btnB,btnC;
  @Override
 protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
    btnA=findViewById(R.id.b1);
    btnB=findViewById(R.id.b2);
    btnC=findViewById(R.id.b3);
```

```
btnA.setOnClickListener(new View.OnClickListener() {
    @Override
   public void onClick(View view) {
     loadfrag(new AFragment(),1);
   }
 });
  btnB.setOnClickListener(new View.OnClickListener() {
    @Override
   public void onClick(View view) {
     loadfrag(new BFragment(),1);
   }
 });
  btnC.setOnClickListener(new View.OnClickListener() {
    @Override
   public void onClick(View view) {
     loadfrag(new CFragment(),1);
   }
 });
public void loadfrag(Fragment frag, int flag){
  FragmentManager fm=getSupportFragmentManager();
```

FragmentTransaction ft=fm.beginTransaction();

}

loadfrag(new BFragment(),0);

```
if (flag == 0)
    ft.add(R.id.frm,frag);
else
    ft.replace(R.id.frm,frag);
    ft.commit();
}
```

```
Activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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"
  android:orientation="vertical">
  <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <Button
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:id="@+id/b1"
     android:layout_weight="1"
     android:text="Frag1"/>
    <Button
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:id="@+id/b2"
     android:layout_weight="1"
     android:text="Frag2"/>
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/b3"
android:layout_weight="1"
android:text="Frag3"/>

</LinearLayout>

</FrameLayout
android:layout_width="match_parent"
android:layout_height="match_parent"
android:id="@+id/frm"/>

</LinearLayout>
```

```
AFragment.java
package com.example.assignment9;
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
public class AFragment extends Fragment {
  public AFragment() {
    // Required empty public constructor
 }
  @Override
  public View on Create View (Layout Inflater inflater, View Group container,
              Bundle savedInstanceState) {
    // Inflate the layout for this fragment
    return inflater.inflate(R.layout.fragment_a, container, false);
 }
}
```

Fragment_a.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".AFragment"
    android:background="#9400FF88">

<!-- TODO: Update blank fragment layout -->
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="@string/hello_blank_fragment" />

</LinearLayout>
```

```
BFragment.java
package com.example.assignment9;
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import\ and roid. view. Layout Inflater;
import android.view.View;
import android.view.ViewGroup;
public class BFragment extends Fragment {
  public BFragment() {
    // Required empty public constructor
 }
  @Override
  public View on Create View (Layout Inflater inflater, View Group container,
               Bundle savedInstanceState) {
    // Inflate the layout for this fragment
    return inflater.inflate(R.layout.fragment_b, container, false);
 }
}
```

Fragment_b.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".BFragment"
    android:background="#6900FF88">

<!-- TODO: Update blank fragment layout -->
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="@string/hello_blank_fragment" />

</LinearLayout>
```

```
CFragment.java
package com.example.assignment9;
import android.os.Bundle;
import androidx.fragment.app.Fragment;
import\ and roid. view. Layout Inflater;
import android.view.View;
import android.view.ViewGroup;
public class CFragment extends Fragment {
  public CFragment() {
    // Required empty public constructor
 }
  @Override
  public View on Create View (Layout Inflater inflater, View Group container,
               Bundle savedInstanceState) {
    // Inflate the layout for this fragment
    return inflater.inflate(R.layout.fragment_c, container, false);
 }
}
```

Fragment_c.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".CFragment"
    android:background="#6900FF88">

<!-- TODO: Update blank fragment layout -->
    <TextView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:text="@string/hello_blank_fragment" />

</LinearLayout>
```







30_07_2024 _MAD_Lecture - Q1

Explicit intent

Username and Password using intent for page linking.

```
MainActivity.java
package com.example.a30_07_2024;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
 Button submit;
 EditText usern;
  EditText pass;
 @Override
 protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
    submit = (Button) findViewById(R.id.b1);
```

```
usern = (EditText) findViewById(R.id.val1);
    pass = (EditText) findViewById(R.id.val2);
    submit.setOnClickListener(new\ View.OnClickListener()\ \{
      @Override
      public void onClick(View view) {
        String user1 = usern.getText().toString();
        String p = pass.getText().toString();
        if (user1.equals("SIMMC") && p.equals("123")) {
          Intent intent = new Intent(getApplicationContext(), MainActivity2.class);
          intent.putExtra("key", user1);
          startActivity(intent);
        } else {
          Toast.makeText(MainActivity.this, "Invalid username or password",
Toast.LENGTH_SHORT).show();
        }
      }
   });
  }
}
```

```
Activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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">
  <EditText
    android:id="@+id/val1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="152dp"
    android:layout_marginBottom="571dp"
    android:ems="10"
    android:inputType="text"
    android:hint="Enter your Username" />
  <EditText
    android:id="@+id/val2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout marginEnd="155dp"
```

```
android:layout_marginBottom="480dp"
android:ems="10"
android:hint="Enter your Password"
android:inputType="textPassword" />
```

<Button

</RelativeLayout>

```
android:id="@+id/b1"

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_alignParentEnd="true"

android:layout_alignParentBottom="true"

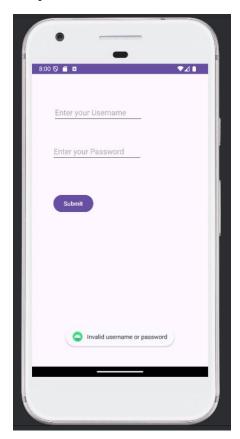
android:layout_marginEnd="268dp"

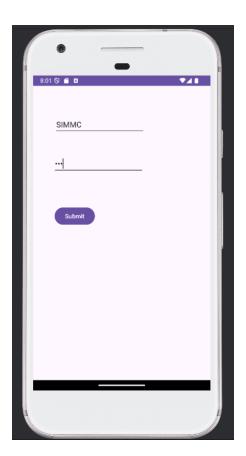
android:layout_marginBottom="357dp"

android:text="Submit" />
```

```
MainActivity2.java
package com.example.a30_07_2024;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity2 extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);
    Intent i = getIntent();
    String s = i.getStringExtra("key");
    TextView tv = (TextView) findViewById(R.id.tv);
    tv.setText("Welcome " + s + " !!!!!!");
  }
}
```

```
Activity_main2.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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=".MainActivity2"
  android:background="#756E7BC5">
  <TextView
    android:id="@+id/tv"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text=""/>
</RelativeLayout>
```







02_08_2024 _MAD_Lecture - Q2

Implicit intent

```
MainActivity.java
package com.example.a02_08_2024;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
 EditText ed;
 Button b1;
  @Override
 protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
    ed =(EditText) findViewById(R.id.ed);
    b1 =(Button) findViewById(R.id.b1);
```

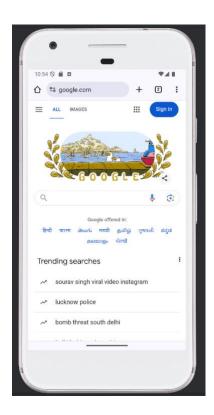
```
b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        String url = ed.getText().toString();
        Intent intent = new Intent(Intent.ACTION_VIEW,Uri.parse(url));
        startActivity(intent);
    }
});
}
```

```
Activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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">
  <EditText
    android:id="@+id/ed"
    android:layout_width="409dp"
    android:layout_height="75dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="0dp"
    android:layout_marginBottom="632dp"
    android:ems="10"
    android:inputType="text"
    android:hint="URL"
    android:textAlignment="center" />
  <Button
    android:id="@+id/b1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
```

android:layout_alignParentBottom="true" android:layout_marginEnd="0dp" android:layout_marginBottom="546dp" android:text="Submit" />

</RelativeLayout>





02_08_2024 _MAD_Lecture -Q3

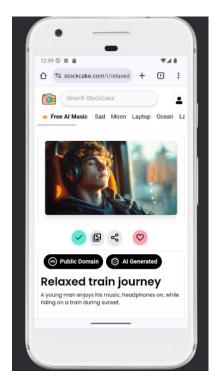
Android manifest file user permission and upload image

```
MainActivity.java
package com.example.a02_08_2024;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
 ImageView im;
 Button b;
 int SELECT_PICTURE = 1000;
 @Override
 protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    im = findViewById(R.id.imageView);
```

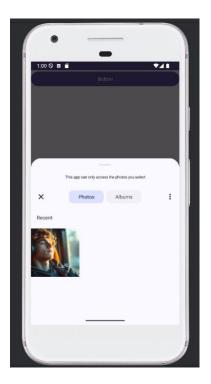
```
b = findViewById(R.id.b1);
    b.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        Intent intent = new Intent();
        intent.setType("image/*");
        intent.setAction(Intent.ACTION_GET_CONTENT);
        startActivityForResult(Intent.createChooser(intent, "SELECT PICTURE"),
SELECT_PICTURE);
      }
   });
  }
  @Override
  protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent
data) {
    super.onActivityResult(requestCode, resultCode, data);
    if (resultCode == RESULT_OK && requestCode == SELECT_PICTURE) {
      // Get the Uri of the selected image
      Uri selectedImageUri = data.getData();
      if (selectedImageUri != null) {
        im.setImageURI(selectedImageUri);
      }
    }
  }
}
```

```
Activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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"
  android:orientation="vertical">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
<Button
    android:id="@+id/b1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Button" />
</LinearLayout>
<ImageView
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="50dp"
    android:scaleType="centerCrop"
    android:id="@+id/imageView"/>
</LinearLayout>
```

```
AndroidManifest.xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:tools="http://schemas.android.com/tools">
 <uses-permission
android:name="android.permission.READ_EXTERNAL_STORAGE"/>
  <uses-permission
android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
  <application
   android:allowBackup="true"
   android:dataExtractionRules="@xml/data_extraction_rules"
   android:fullBackupContent="@xml/backup_rules"
   android:icon="@mipmap/ic_launcher"
   android:label="@string/app_name"
   android:roundIcon="@mipmap/ic_launcher_round"
   android:supportsRtl="true"
   android:theme="@style/Theme._02_08_2024"
   tools:targetApi="31">
   <activity
     android:name=".MainActivity"
     android:exported="true">
     <intent-filter>
       <action android:name="android.intent.action.MAIN" />
       <category android:name="android.intent.category.LAUNCHER" />
     </intent-filter>
   </activity>
  </application>
</manifest>
```



Download Image from google



Select Image from downloads



Click on Button



05_08_2024_MAD_Lecture - Q4

Listview using ArrayAdapter

```
A. Simple List Item
MainActivity.java
package com.example.a05_08_204;
import android.os.Bundle;
import android.view.View;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  ListView lv;
 String[] subjects = {"CC","DWDM","MAD","STQA","KRAI"};
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
    lv=(ListView) findViewById(R.id.listview);
```

```
ArrayAdapter<String> adapter=new
ArrayAdapter<String>(getApplicationContext(),
android.R.layout.simple_list_item_1,subjects);
lv.setAdapter(adapter);
lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
        String s = adapter.getItem(i);
        Toast.makeText(getApplicationContext(),s,Toast.LENGTH_SHORT).show();
    }
});
}
```

```
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:layout_width="match_parent"

android:layout_height="match_parent"

tools:context=".MainActivity">

<LiistView

android:layout_width="match_parent"

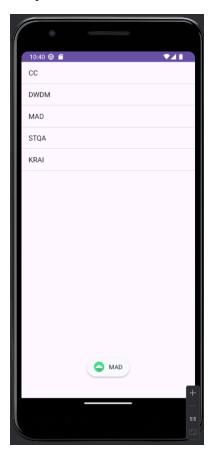
android:layout_height="match_parent"

android:layout_height="match_parent"

android:id="@+id/listview"

/>

</LinearLayout>
```

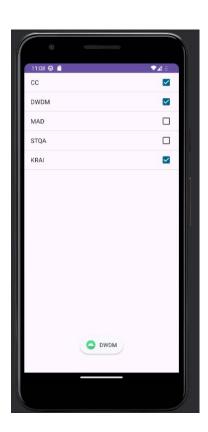


```
B. Simple List item with multiple choice
MainAcivity.xml
package com.example.a05_08_204;
import android.os.Bundle;
import android.view.View;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
 ListView lv;
 String[] subjects = {"CC","DWDM","MAD","STQA","KRAI"};
  @Override
 protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
    lv=(ListView) findViewById(R.id.listview);
```

```
ArrayAdapter<String> (getApplicationContext(),
android.R.layout.simple_list_item_multiple_choice,subjects);
lv.setAdapter(adapter);
lv.setChoiceMode(lv.CHOICE_MODE_MULTIPLE);
lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {
     @Override
     public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
        String s = adapter.getItem(i);
        Toast.makeText(getApplicationContext(),s,Toast.LENGTH_SHORT).show();
     }
    });
}
```

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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"
 android:orientation="vertical"
 tools:context=".MainActivity"
  <ListView
    android:id="@+id/listview"
    android:layout_width="match_parent"
    android:layout_height="692dp"
    />
<LinearLayout
 android:layout_width = "wrap_content"
 android:layout_height="wrap_content">
</LinearLayout>
 <Button
    android:id="@+id/b1"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:text="Display" />
```

</LinearLayout>



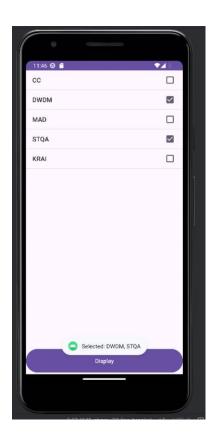
```
C. To Display multiple choice list using toast
MainActivity.xml
package com.example.a05_08_204;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  ListView lv;
 Button btn;
 String[] subjects = {"CC","DWDM","MAD","STQA","KRAI"};
 @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    lv = findViewById(R.id.listview);
    btn = findViewById(R.id.b1);
    ArrayAdapter<String> adapter = new ArrayAdapter<>(this,
```

android.R.layout.simple_list_item_multiple_choice, subjects);

```
lv.setAdapter(adapter);
    lv.setChoiceMode(ListView.CHOICE_MODE_MULTIPLE);
    btn.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        int count = lv.getCount();
        StringBuilder selectedItems = new StringBuilder();
        for (int i = 0; i < count; i++) {
          if (lv.isItemChecked(i)) {
            selectedItems.append(adapter.getItem(i)).append(", ");
          }
        }
        if (selectedItems.length() > 0) {
          selectedItems.setLength(selectedItems.length() - 2);
        }
        Toast.makeText(getApplicationContext(), "Selected: " + selectedItems.toString(),
Toast.LENGTH_SHORT).show();
      }
   });
 }
}
```

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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"
 android:orientation="vertical"
 tools:context=".MainActivity"
  <ListView
    android:id="@+id/listview"
    android:layout_width="match_parent"
    android:layout_height="692dp"
    />
<LinearLayout
 android:layout_width = "wrap_content"
 android:layout_height="wrap_content">
</LinearLayout>
 <Button
    android:id="@+id/b1"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:text="Display" />
```

</LinearLayout>



06_08_2024_MAD_LECTURE - Q5

Dropdown List using spinner

```
MainActivity.java
package com.example.a06_08_2024;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
 private Spinner spinner;
  @Override
 protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    spinner = findViewById(R.id.spinner);
    String[] items = {"CC", "DWDM", "STQA", "MAD", "KRAI"};
    ArrayAdapter<String> adapter = new ArrayAdapter<>(this,
android.R.layout.simple_spinner_item, items);
adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
    spinner.setAdapter(adapter);
    spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
      @Override
     public void onItemSelected(AdapterView<?> parent, View view, int position, long
id) {
       String selectedItem = parent.getItemAtPosition(position).toString();
```

```
Toast.makeText(MainActivity.this, "Selected item: " + selectedItem,
Toast.LENGTH_SHORT).show();
}

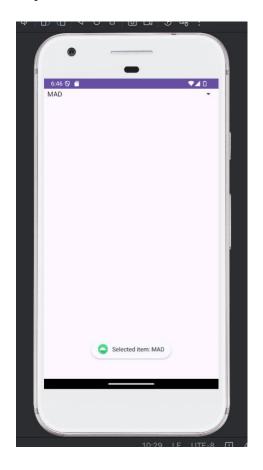
@Override
public void onNothingSelected(AdapterView<?> parent) {
}
});
}
```

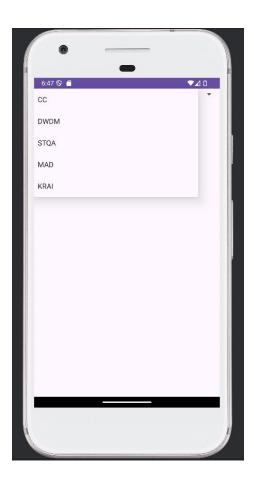
```
activity_main.xml

<?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"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <Spinner
    android:id="@+id/spinner"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" />

</LinearLayout>
```





09_08_2024_MAD_LECTURE - Q6

Gridview using customadapter MainActivity.java package com.example.a09_08_2024; import android.content.Intent; import android.os.Bundle; import android.text.method.HideReturnsTransformationMethod; import android.text.method.PasswordTransformationMethod; import android.view.View; import android.widget.Button; import android.widget.CheckBox; import android.widget.EditText; import android.widget.Toast; import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; public class MainActivity extends AppCompatActivity { Button submit; EditText user, pass; private CheckBox showpass; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); EdgeToEdge.enable(this); setContentView(R.layout.activity_main);

```
submit = (Button) findViewById(R.id.loginButton);
    user = (EditText) findViewById(R.id.username);
    pass = (EditText) findViewById(R.id.password);
    showpass = findViewById(R.id.showPassword);
    showpass.setOnCheckedChangeListener((buttonView, isChecked) -> {
     if (isChecked) {
       // Show Password
pass.setTransformationMethod(HideReturnsTransformationMethod.getInstance());
     } else {
       // Hide Password
pass.setTransformationMethod(PasswordTransformationMethod.getInstance());
     }
   });
    submit.setOnClickListener(new View.OnClickListener() {
      @Override
     public void onClick(View view) {
       String username = user.getText().toString();
       String password = pass.getText().toString();
       if (username.equals("SIMMC") && password.equals("12345")) {
          Intent intent = new Intent(MainActivity.this, MainActivity2.class);
         startActivity(intent);
         finish();
       } else {
          Toast.makeText(MainActivity.this, "Invalid username and password",
Toast.LENGTH_SHORT).show();
       }
```

```
}
};
}
```

```
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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">
  <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center_horizontal">
    <TextView
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Login Form"
     android:layout_marginTop="80dp"
     android:textSize="24sp"
     android:layout_gravity="center_horizontal"/>
    <EditText
     android:id="@+id/username"
     android:layout_width="match_parent"
     android:layout_height="wrap_content"
     android:layout_margin="16dp"
```

```
android:layout_marginTop="50dp"
     android:hint="Username"
     android:inputType="text" />
   <EditText
     android:id="@+id/password"
     android:layout_width="match_parent"
     android:layout_height="wrap_content"
     android:hint="Password"
     android:layout_margin="16dp"
     android:inputType="textPassword" />
   <CheckBox
     android:id="@+id/showPassword"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Show Password"
     android:layout_gravity="center"/>
   <Button
     android:id="@+id/loginButton"
     android:layout_width="match_parent"
     android:layout_height="wrap_content"
     android:layout_margin="16dp"
     android:text="Login" />
  </LinearLayout>
</RelativeLayout>
```

```
MainActivity2.java
package com.example.a09_08_2024;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity2 extends AppCompatActivity {
 private TextView questionText;
 private RadioGroup answersGroup;
  private Button nextButton;
 private String[] questions = {
      "What is the capital of France?",
      "Who is the creator of Android?",
      "What is the largest planet in our solar system?",
      "Which language is used for Android development?",
      "Display anything in java?"
 };
```

```
private String[][] answers = {
    {"Berlin", "Madrid", "Paris", "Lisbon"},
    {"Steve Jobs", "Andy Rubin", "Mark Zuckerberg", "Bill Gates"},
    {"Earth", "Mars", "Jupiter", "Saturn"},
    {"Java", "Python", "C#", "Ruby"},
    {"printf", "println", "print", "display"}
};
private int[] correctAnswers = {2, 1, 2, 0,2};
private int currentQuestionIndex = 0;
private int score = 0;
@SuppressLint("MissingInflatedId")
@Override
protected void onCreate(Bundle savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main2);
  questionText = findViewById(R.id.question);
  answersGroup = findViewById(R.id.answersGroup);
  nextButton = findViewById(R.id.nextButton);
  loadQuestion();
  nextButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
      int selectedId = answersGroup.getCheckedRadioButtonId();
```

```
if (selectedId == -1) {
          Toast.makeText(MainActivity2.this, "Please select an answer",
Toast.LENGTH_SHORT).show();
        } else {
          RadioButton selectedRadioButton = findViewById(selectedId);
          int answerIndex = answersGroup.indexOfChild(selectedRadioButton);
          if (answerIndex == correctAnswers[currentQuestionIndex]) {
            score++;
          }
          currentQuestionIndex++;
          if (currentQuestionIndex < questions.length) {</pre>
            loadQuestion();
          } else {
            Intent intent = new Intent(MainActivity2.this, MainActivity3.class);
            intent.putExtra("SCORE", score);
            startActivity(intent);
            finish();
          }
        }
      }
   });
 }
  private void loadQuestion() {
    questionText.setText(questions[currentQuestionIndex]);
    answersGroup.clearCheck();
    for (int i = 0; i < answersGroup.getChildCount(); i++) {</pre>
```

```
((RadioButton)
answersGroup.getChildAt(i)).setText(answers[currentQuestionIndex][i]);
}
}
```

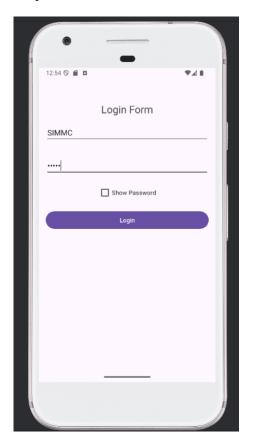
```
activity_main2.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:orientation="vertical"
 android:padding="16dp">
  <TextView
    android:id="@+id/question"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Question will appear here"
    android:textSize="18sp"
    android:layout_marginBottom="16dp" />
  <RadioGroup
    android:id="@+id/answersGroup"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical">
    <RadioButton
     android:id="@+id/answer1"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Answer 1" />
    <RadioButton
     android:id="@+id/answer2"
     android:layout_width="wrap_content"
```

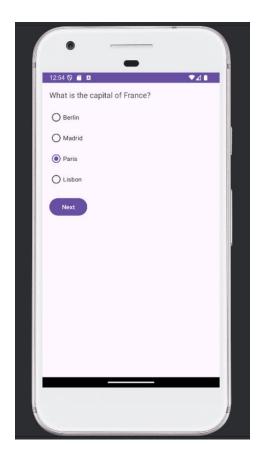
```
android:layout_height="wrap_content"
     android:text="Answer 2" />
   <RadioButton
     android:id="@+id/answer3"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Answer 3" />
   <RadioButton
     android:id="@+id/answer4"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Answer 4" />
  </RadioGroup>
  <Button
   android:id="@+id/nextButton"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Next"
   android:layout_marginTop="16dp" />
</LinearLayout>
```

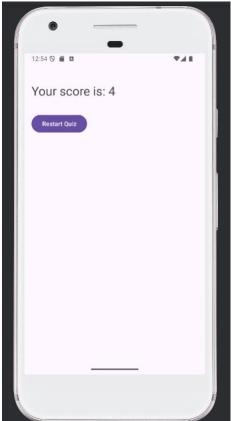
```
MainActivity3.java
package com.example.a09_08_2024;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.content.Intent;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity3 extends AppCompatActivity {
  private TextView resultText;
  private Button restartButton;
  @SuppressLint("MissingInflatedId")
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main3);
    resultText = findViewById(R.id.result);
    restartButton = findViewById(R.id.restartButton);
    int score = getIntent().getIntExtra("SCORE", 0);
    resultText.setText("Your score is: " + score);
    restartButton.setOnClickListener(new View.OnClickListener() {
```

```
@Override
public void onClick(View v) {
    Intent intent = new Intent(MainActivity3.this, MainActivity2.class);
    startActivity(intent);
    finish();
    }
});
}
```

```
activity_main3.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:padding="16dp">
  <TextView
    android:id="@+id/result"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Your score is:"
    android:textSize="28sp"
    android:layout_marginTop="50dp"
    android:layout_marginBottom="16dp" />
  <Button
    android:id="@+id/restartButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Restart Quiz"
    android:layout_marginTop="16dp" />
</LinearLayout>
```







12_08_2024_MAD_LECTURE - Q7

Gridview using customadapter

MainActivity.java package com.example.a12_08_2024; import android.os.Bundle; import android.view.View; import android.widget.AdapterView; import android.widget.GridView; import android.widget.Toast; import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; import androidx.core.graphics.Insets; import androidx.core.view.ViewCompat; import androidx.core.view.WindowInsetsCompat; public class MainActivity extends AppCompatActivity { int food[]={R.drawable.apple,R.drawable.banana,R.drawable.orange, R.drawable.carrot, R.drawable.eggplant, R.drawable.tomato, R.drawable.mango, R.drawable.chickoo, R.drawable.watermelon **}**; String[] names = {"Apple","Banana","Orange", "Carrot", "Eggplant", "Tomato", "Mango","Chickoo","Watermelon" **}**;

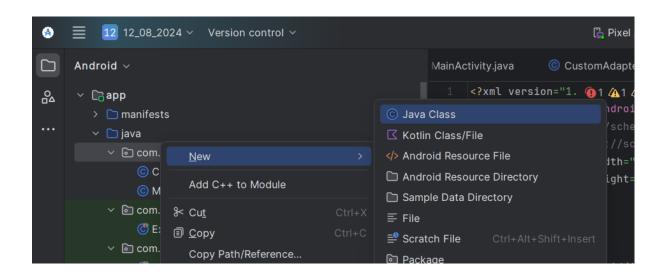
```
GridView gridView;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    gridView = (android.widget.GridView) findViewById(R.id.gridview);
    CustomAdapter customAdapter = new
CustomAdapter(getApplicationContext(),food);
    gridView.setAdapter(customAdapter);
    gridView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
      @Override
      public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
       Toast.makeText(MainActivity.this,"You choose " +
names[i],Toast.LENGTH_LONG).show();
      }
   });
 }
}
```

```
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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">
  <GridView
    android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:id="@+id/gridview"
    android:numColumns="3"
   />
</LinearLayout>
```

```
CustomAdapter.java
package com.example.a12_08_2024;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.ImageView;
public class CustomAdapter extends BaseAdapter {
 Context context;
 int images[];
  LayoutInflater inflater;
 public CustomAdapter(Context applicationContext, int[] images){
    this.context=applicationContext;
    this.images=images;
    inflater = (LayoutInflater.from(applicationContext));
 }
  @Override
  public int getCount() {
    return images.length;
 }
```

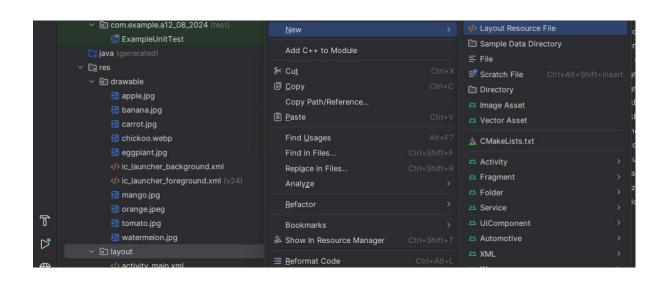
```
@Override
public Object getItem(int i) {
  return null;
}
@Override
public long getItemId(int i) {
  return 0;
}
@Override
public View getView(int i, View view, ViewGroup viewGroup) {
  view = inflater.inflate(R.layout.images,null);
  ImageView imageView = (ImageView) view.findViewById(R.id.imageView);
  imageView.setImageResource(images[i]);
  return view;
}
```

}



images.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:layout_width="match_parent"
    android:layout_height="match_parent"
    >
    <ImageView
        android:id="@+id/imageView"
        android:layout_gravity="center_horizontal"
        android:layout_width="100dp"
        android:layout_height="100dp"
        android:scaleType="fitXY"/>
        />
        </LinearLayout>
```







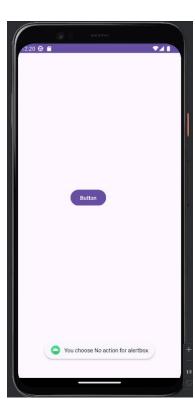
```
MainActivity.java
package com.example.a13_08_2024_dialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Button alert=(Button) findViewById(R.id.b1);
    alert.setOnClickListener(new View.OnClickListener() {
      @Override
     public void onClick(View v) {
       AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
       builder.setMessage("DO You Want To Close This Application?")
```

```
.setCancelable(true)
            .setPositiveButton("yes", new DialogInterface.OnClickListener() {
              @Override
              public void onClick(DialogInterface dialogInterface, int i) {
                finish();
                Toast.makeText(getApplicationContext(),"You choose yes action for
alertbox", Toast.LENGTH_SHORT).show();
              }
            })
        .setNegativeButton("No", new DialogInterface.OnClickListener() {
          @Override
          public void onClick(DialogInterface dialog, int i) {
            dialog.cancel();
            Toast.makeText(getApplicationContext(),"You choose No action for
alertbox", Toast.LENGTH_SHORT).show();
          }
        })
        .setTitle("Alert Box").show();
      }
   });
  }
}
```

```
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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">
  <Button
    android:id="@+id/b1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="189dp"
    android:layout_marginBottom="431dp"
    android:text="Button" />
</RelativeLayout>
```







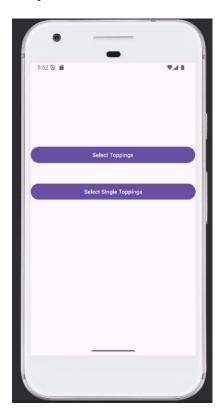
```
MainActivity.java
package com.example.a16_08_2024;
import android.content.DialogInterface; import android.os.Bundle;
import android.view.View; import android.widget.Button;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity; import
androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
import java.util.ArrayList;
public class MainActivity extends AppCompatActivity {
 Button btn,btn2;
 String toppings[] = {"Cheese","Paneer","Mushroom","Capsicum","Onion","Corn"};
ArrayList<Integer> arlist = new ArrayList<>();
 String msg="";
```

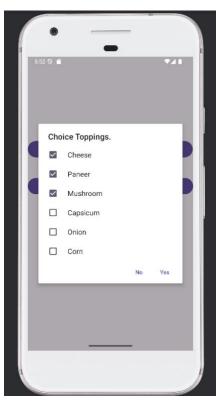
```
boolean [] Vb = new boolean[toppings.length]; int ai=0;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState); EdgeToEdge.enable(this);
setContentView(R.layout.activity_main);
    btn = (Button) findViewById(R.id.btn1); btn2 = (Button) findViewById(R.id.btn2);
    btn.setOnClickListener(new View.OnClickListener() { @Override
    public void onClick(View v) {
      AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
builder.setTitle("Choice Toppings.");
      builder.setMultiChoiceItems(toppings,Vb, new
DialogInterface.OnMultiChoiceClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int i, boolean isChecked) { if
(isChecked){
              arlist.add(i);
            } else if (arlist.contains(i)) { arlist.remove(Integer.valueOf(i));
            }
            }
          })
          .setPositiveButton("Yes", new DialogInterface.OnClickListener() { @Override
          public void onClick(DialogInterface dialog, int which) { for (int a=0;
a<arlist.size(); a++){
            msg = msg+"\n"+": "+toppings[arlist.get(a)];
          }
            Toast.makeText(getApplicationContext(),"Total Toppings
Selected:"+arlist.size(),Toast.LENGTH_LONG).show();
```

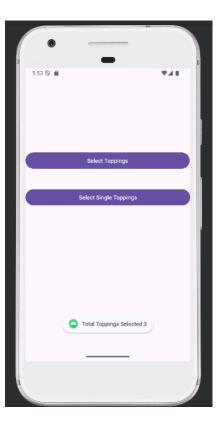
```
}
          })
          .setNegativeButton("No", new DialogInterface.OnClickListener() { @Override
          public void onClick(DialogInterface dialog, int which) { dialog.dismiss();
            Toast.makeText(getApplicationContext(),"No Toppings
Selected",Toast.LENGTH_LONG).show();
          }
          });
      AlertDialog ad= builder.create(); ad.show();
   }
   });
    btn2.setOnClickListener(new View.OnClickListener() { @Override
    public void onClick(View v) {
      AlertDialog.Builder builder2 = new AlertDialog.Builder(MainActivity.this);
builder2.setTitle("Single")
          .setSingleChoiceItems(toppings, 0, new DialogInterface.OnClickListener() {
@Override
          public void onClick(DialogInterface dialog, int which) { ai=which;
          }
          })
          .setPositiveButton("Yes", new DialogInterface.OnClickListener() { @Override
          public void onClick(DialogInterface dialog, int which) {
            Toast.makeText(MainActivity.this, "Selected item"+toppings[ai],
Toast.LENGTH_SHORT).show();
          }
          })
```

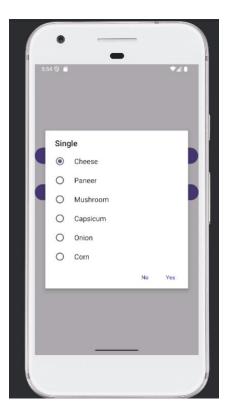
```
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:id="@+id/main"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity"
  android:orientation="vertical">
  <Button
    android:id="@+id/btn1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_marginTop="206dp"
    android:layout_marginEnd="1dp"
    android:text="Select Toppings"
    tools:layout_editor_absoluteX="144dp"
    tools:layout_editor_absoluteY="58dp" />
  <Button
    android:id="@+id/btn2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout alignParentTop="true"
```

```
android:layout_alignParentEnd="true"
android:layout_marginTop="298dp"
android:layout_marginEnd="0dp"
android:text="Select Single Toppings"
tools:layout_editor_absoluteX="144dp"
tools:layout_editor_absoluteY="58dp" />
</RelativeLayout>
```











Date Picker using toast

MainActivity.java

import android.os.Bundle; import android.view.View; import android.widget.Button; import android.widget.DatePicker; import android.widget.Toast;

package com.example.a20_08_2024;

import androidx.activity.EdgeToEdge; import androidx.appcompat.app.AppCompatActivity; import androidx.core.graphics.Insets; import androidx.core.view.ViewCompat; import androidx.core.view.WindowInsetsCompat;

Button btn;
DatePicker dt;
@Override
protected void onCreate(Bundle savedInstanceState) {
 super.onCreate(savedInstanceState);
 setContentView(R.layout.activity_main);
 btn =(Button) findViewById(R.id.b1);
 dt = (DatePicker) findViewById(R.id.dpicker);

public class MainActivity extends AppCompatActivity {

```
btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Toast.makeText(MainActivity.this, "Selected date is "+dt.getDayOfMonth()+"/"
+(dt.getMonth()+1)+"/" +dt.getYear() ,Toast.LENGTH_SHORT).show();
    }
});
}
```

```
Activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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"
  android:orientation="vertical"
 tools:context=".MainActivity">
  <Button
    android:id="@+id/b1"
    android:layout_width="match_parent"
    android:layout_height="59dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="0dp"
    android:layout_marginBottom="162dp"
    android:layout_weight="1"
    android:fontFamily="garamond"
    android:text="select date"
    />
  <DatePicker
    android:id="@+id/dpicker"
    android:layout_width="match_parent"
    android:layout height="wrap content"
```

```
android:layout_alignParentStart="true"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_gravity="center"
android:layout_marginStart="0dp"
android:layout_marginEnd="0dp"
android:layout_marginBottom="299dp" />
```

</RelativeLayout>



```
Menu - Pop Up
MainActivty.java
package com.example.a27_08_2024;
import android.content.Intent;
import android.os.Bundle;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.PopupMenu;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
    Button btn= (Button)findViewById(R.id.button);
    btn.setOnLongClickListener(new View.OnLongClickListener() {
     @Override
     public boolean onLongClick(View view) {
```

```
PopupMenu p = new PopupMenu(MainActivity.this, btn);
        p.getMenuInflater().inflate(R.menu.popup_m, p.getMenu());
        p.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {
          @Override
          public boolean onMenuItemClick(MenuItem menuItem) {
            String menu=menuItem.getTitle().toString();
            if(menu.equals("two")){
                 Intent i = new Intent(getApplicationContext(), second.class);
                 startActivity(i);
           }
            else {
             Toast.makeText(MainActivity.this, "You Clicked on " +
menuItem.getTitle(), Toast.LENGTH_SHORT).show();
           }
           return true;
         }
        });
        p.show();
        return true;
     }
   });
 }
}
```

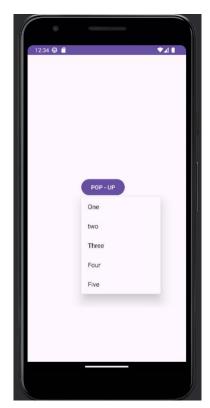
```
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
  android:id="@+id/main"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <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="152dp"
    android:layout_marginBottom="408dp"
    android:text="POP - UP" />
```

</RelativeLayout>

```
Second.java
package com.example.a27_08_2024;
import android.os.Bundle;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import\ and roidx. core. view. Window In sets Compat;
public class second extends AppCompatActivity {
  @Override
 protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_second);
 }
}
```

```
activity_second.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 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=".second">
  <TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="137dp"
    android:layout_marginBottom="402dp"
    android:gravity="center_horizontal"
    android:text="Second Page"
    android:textColor="#16A435"
    android:textSize="30dp"
    tools:layout_editor_absoluteX="183dp"
    tools:layout_editor_absoluteY="308dp" />
</RelativeLayout>
```









Media Player

```
MainActivity.java
package com.example.mediaplayer;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageButton;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  MediaPlayer mp;
  ImageButton play, pause, stop;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    // Initialize MediaPlayer
    mp = MediaPlayer.create(this, R.raw.song);
    // Get references to UI buttons
    play = findViewById(R.id.play);
    pause = findViewById(R.id.pause);
    stop = findViewById(R.id.stop);
    // Play button logic
    play.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        if (mp != null && !mp.isPlaying()) {
          mp.start();
        }
      }
   });
    // Pause button logic
```

```
pause.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
      if (mp != null && mp.isPlaying()) {
        mp.pause();
      }
    }
  });
  // Stop button logic
  stop.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
      if (mp != null && mp.isPlaying()) {
        mp.stop();
        mp.release();
        mp = null;
        // Reinitialize MediaPlayer
        mp = MediaPlayer.create(MainActivity.this, R.raw.song);
      }
    }
 });
@Override
protected void onDestroy() {
  super.onDestroy();
  // Release MediaPlayer resources on destroy
  if (mp != null) {
    mp.release();
    mp = null;
  }
}
```

```
activity_main.xml

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    android:padding="20dp"
    tools:context=".MainActivity">

<!-- Play Button -->
    <!-- Play Button -->
    <!-- Play Button -->
    <!-- android:id="@+id/play"
```

```
<ImageButton
  android:id="@+id/play"
  android:layout_width="100dp"
  android:layout_height="100dp"
  android:src="@android:drawable/ic_media_play"/>
<!-- Pause Button -->
```

```
<ImageButton
  android:id="@+id/pause"
  android:layout_width="100dp"
  android:layout_height="100dp"
  android:src="@android:drawable/ic_media_pause"/>
```

```
<!-- Stop Button -->
<ImageButton
android:id="@+id/stop"
android:layout_width="100dp"
android:layout_height="100dp"/>
</LinearLayout>
```

