## **Android practical list**

### 1. Custom styles

#### code:

## 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/tools"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:gravity="center"
    android:layout_height="match_parent"
    tools:context="com.example.custom_styles.MainActivity">

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
    style="@style/dgstyle"/>

</LinearLayout>
```

## Styles.xml

```
<?xml version="1.0" encoding="utf-8"?>
 <resources>
    <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
      <item name="colorPrimary">@color/colorprimary</item>
      <item name="colorPrimaryDark">@color/colorprimarydark</item>
      <item name="colorAccent">@color/coloraccent</item>
    </style>
    <style name="dgstyle">
      <item name ="android:layout_width">fill_parent</item>
      <item name="android:layout_height">wrap_content</item>
      <item name="android:typeface">monospace</item>
      <item name="android:background">#260068</item>
      <item name="android:textSize">12pt</item>
      <item name="android:textColor">#ffffff</item>/>
    </style>
  </resources>
```

# output:



## 2. Food order app

#### Code:

```
package com.example.my_app;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.EditText;
import android.widget.RadioButton:
import android.widget.RadioGroup;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity implements View.OnClickListener {
  EditText edtName, edtNumber;
  RadioButton radioV, radioNV, RadioBut,r1,r2;
  CheckBox checkP, checkB, checkS;
  Button butOrder:
  RadioGroup radioG;
  TextView OrderDetails2. OrderDetails:
  int total = 0:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    edtName = findViewById(R.id.edtName);
    edtNumber = findViewById(R.id.edtNumber);
    r1= findViewById(R.id.r1);
    r2= findViewById(R.id.radioNVv);
    radioV = findViewById(R.id.radioV);
    radioNV = findViewById(R.id.radioNV);
    radioG = findViewById(R.id.radioG);
    checkP = (CheckBox)findViewById(R.id.checkP);
    checkB = (CheckBox)findViewById(R.id.checkB);
    checkS = (CheckBox)findViewById(R.id.checkS);
    butOrder = (Button)findViewById(R.id.butOrder);
    butOrder.setOnClickListener(this);
  @Override
  public void onClick(View v) {
    if (v == butOrder) 
      int SelectedID = radioG.getCheckedRadioButtonId();
      RadioBut = (RadioButton)findViewById(SelectedID);
      String R = RadioBut.getText().toString();
```

```
if (R.equals("Veg")){
        if (checkP.isChecked()){
           total = total + 100;
        if (checkB.isChecked()){
        if (checkS.isChecked()){
      if (R.equals("Non-Veg")){
        if (checkP.isChecked()){
        if (checkB.isChecked()){
           total = total + 150:
        if (checkS.isChecked()){
      if (R.equals("Jain")){
        if (checkP.isChecked()){
        if (checkB.isChecked()){
           total = total + 150;
        if (checkS.isChecked()){
      if (R.equals("Non-Jain")){
        if (checkP.isChecked()){
        if (checkB.isChecked()){
           total = total + 150;
        if (checkS.isChecked()){
      String Summary = "Name: " +edtName.getText()+ "\nPhone:
'+edtNumber.getText()+"\nType: "+RadioBut.getText().toString()+"\nTotal: "+total;
      Toast.makeText(this,Summary, Toast.LENGTH_LONG).show();
```

```
checkP.setChecked(false);
    checkB.setChecked(false);
    checkS.setChecked(false);
}
```

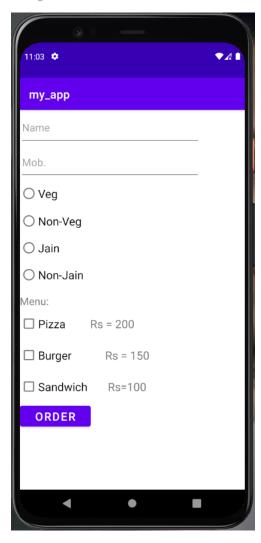
## activity\_main.xml

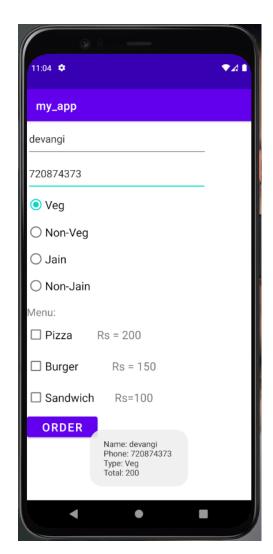
```
<?xml version="1.0" encoding="utf-8"?>
< Relative Layout xmlns: android = "http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context="com.example.my app.MainActivity">
  <LinearLayout
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:weightSum="1"
    android:layout_alignParentBottom="true"
    android:layout_alignParentEnd="true"
    android:layout marginEnd="12dp"
    android:layout_marginBottom="23dp">
    <EditText
      android:layout width="316dp"
      android:layout_height="wrap_content"
      android:id="@+id/edtName"
      android:hint="Name"
      android:layout_weight="0.15"/>
    <EditText
      android:layout_width="315dp"
      android:layout_height="wrap_content"
      android:id="@+id/edtNumber"
      android:hint="Mob."
      android:layout_weight="0.13"/>
    < Radio Group
      android:id="@+id/radioG"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:weightSum="1">
      < Radio Button
         android:id="@+id/radioV"
         android:layout_width="wrap_content"
         android:layout_height="49dp"
         android:lavout weight="0.24"
```

```
android:checked="false"
    android:textSize="20dp"/>
  < Radio Button
    android:id="@+id/r1"
    android:layout_width="wrap_content"
    android:layout height="47dp"
    android:layout_weight="0.11"
    android:checked="false"
    android:text="Non-Veg"
    android:textSize="20dp" />
  <RadioButton
    android:id="@+id/radioNV"
    android:layout width="wrap content"
    android:layout_height="47dp"
    android:layout_weight="0.11"
    android:checked="false"
    android:text="Jain"
    android:textSize="20dp"/>
  < Radio Button
    android:id="@+id/radioNVv"
    android:layout width="wrap content"
    android:layout_height="47dp"
    android:layout_weight="0.11"
    android:checked="false"
    android:text="Non-Jain"
    android:textSize="20dp" />
</RadioGroup>
<TextView
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:textAppearance="?android:attr/textAppearanceMedium"
  android:text="Menu:"
  android:id="@+id/textView"
  android:paddingTop="10dp"/>
<LinearLayout
  android:orientation="horizontal"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:weightSum="1">
  <CheckBox
    android:layout_width="wrap_content"
    android:layout_height="55dp"
    android:text="Pizza"
    android:id="@+id/checkP"
    android:checked="false"
    android:layout_weight="0.09"
    android:textSize="20dp" />
  <TextView
```

```
android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:paddingLeft="20dp"
    android:text="Rs = 200"
    android:textSize="20dp" />
</LinearLayout>
<LinearLayout
  android:orientation="horizontal"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:weightSum="1">
  <CheckBox
    android:layout width="wrap content"
    android:layout_height="55dp"
    android:text="Burger"
    android:id="@+id/checkB"
    android:checked="false"
    android:layout_weight="0.20"
    android:textSize="20dp" />
  <TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:paddingLeft="20dp"
    android:textSize="20dp"/>
</LinearLayout>
<LinearLayout
  android:orientation="horizontal"
  android:layout width="match parent"
  android:layout_height="wrap_content"
  android:weightSum="1">
  <CheckBox
    android:layout_width="wrap_content"
    android:layout_height="55dp"
    android:id="@+id/checkS"
    android:checked="false"
    android:layout_weight="0.09"
    android:textSize="20dp"/>
  <TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:paddingLeft="20dp"
```

```
android:text="Rs=100"
android:textSize="20dp" />
</LinearLayout>
<Button
android:layout_width="124dp"
android:layout_height="wrap_content"
android:text="Order"
android:id="@+id/butOrder"
android:textSize="20dp" />
</LinearLayout>
</RelativeLayout>
```





## 3. Autocomplete text

#### Code:

## MainActivity.java

```
package com.example.new_app;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.AutoCompleteTextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  String[] countryNameList = {"India", "China", "Australia", "New Zealand", "England",
'Pakistan"};
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    //initiate an auto complete text view
    AutoCompleteTextView simpleAutoCompleteTextView = (AutoCompleteTextView)
findViewById(R.id.simpleAutoCompleteTextView);
    ArrayAdapter adapter = new ArrayAdapter(this, android.R.layout.simple_list_item_1,
countryNameList);
    simpleAutoCompleteTextView.setAdapter(adapter);
    simpleAutoCompleteTextView.setThreshold(1);//start searching from 1 character
    simpleAutoCompleteTextView.setAdapter(adapter); //set the adapter for displaying
```

## 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:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingBottom="@dimen/activity_vertical_margin"
    tools:context="com.example.new_app.MainActivity">
```

```
<AutoCompleteTextView
    android:id="@+id/simpleAutoCompleteTextView"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background="#000"
    android:hint="Enter Country Name Here"
    android:padding="15dp"
    android:textColor="@color/white"
    android:textColorHint="#fff"
    android:textStyle="bold|italic" />
</LinearLayout>
```





#### 4. Intent Call a Number

#### Code:

## activity\_main.xml

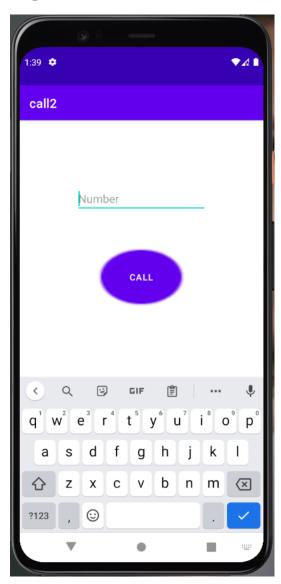
```
<?xml version="1.0" encoding="utf-8"?>
< Relative Layout xmlns: android = "http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context="com.example.call2.MainActivity">
  <EditText
    android:id="@+id/editText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="104dp"
    android:ems="10"
    android:hint="Number"
    android:inputType="textPersonName"
    tools:layout_editor_absoluteX="84dp"
    tools:layout_editor_absoluteY="55dp" />
  <Button
    android:id="@+id/button"
    android:layout width="150dp"
    android:layout_height="100dp"
    android:layout below="@+id/editText"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="53dp"
    android:background="@android:drawable/presence_online"
    android:text="Call"
    tools:layout_editor_absoluteX="148dp"
    tools:layout_editor_absoluteY="137dp" />
</RelativeLayout>
```

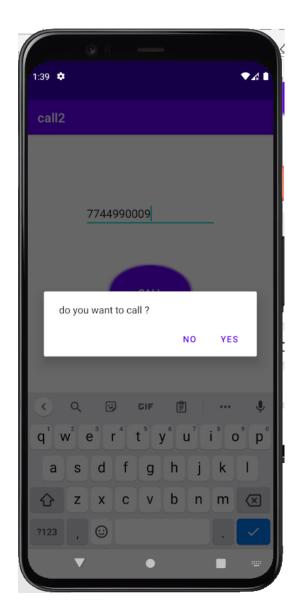
```
import android.content.DialogInterface;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

```
import android.widget.EditText;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
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.button);
    final EditText e1=(EditText)findViewById(R.id.editText);
    b1.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         AlertDialog.Builder a=new AlertDialog.Builder(MainActivity.this);
         a.setMessage("do you want to call ?");
         a.setPositiveButton("Yes", new DialogInterface.OnClickListener(){
            @Override
           public void onClick(DialogInterface dialog, int which) {
              Intent i=new Intent(Intent.ACTION_DIAL,Uri.parse("tel:91"+e1.getText()));
              startActivity(i);}
         a.setNegativeButton("no",new DialogInterface.OnClickListener(){
            @Override
           public void onClick(DialogInterface dialog, int which) {
              dialog.cancel();
         });
         a.create().show();
     });
```

Class: SYIT

## output:





## 5. Common gesture

#### Code:

```
package com.example.common_gesture;
import android.os.Bundle;
import android.view.GestureDetector;
import android.view.MotionEvent;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.view.GestureDetectorCompat;
public class MainActivity extends AppCompatActivity implements
GestureDetector.OnGestureListener{
  private TextView t1;
  private GestureDetectorCompat gDetector;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    t1 = (TextView)findViewById(R.id.t1);
    this.gDetector = new GestureDetectorCompat(this,this);
  @Override
  public boolean onTouchEvent(MotionEvent event) {
    this.gDetector.onTouchEvent(event);
    return super.onTouchEvent(event);
  @Override
  public boolean onDown(MotionEvent event) {
    t1.setText ("onDown");
    return true:
  @Override
  public void onShowPress(MotionEvent motionEvent) {
    t1.setText("onShowPress");
  @Override
  public boolean onFling(MotionEvent event1, MotionEvent event2, float velocityX, float
velocity){
    t1.setText("onFling");
    return true:
```

```
@Override
public void onLongPress(MotionEvent event) {t1.setText("onLongPres");}

@Override
public boolean onScroll(MotionEvent el, MotionEvent e2, float distanceX, float
distanceY){
    t1.setText("onScroll");
    return true;
}

@Override
public boolean onSingleTapUp(MotionEvent event){
    t1.setText("onSingleTapUp");
    return true;
}
```

### activity\_main.xml

```
<?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:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context="com.example.common_gesture.MainActivity">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t1"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintVertical_weight="0.433"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="232dp"/>
</RelativeLayout>
```







#### 6. Device Camera:

#### Code:

```
package com.example.camera1;
import android.app.Activity;
import android.content.Intent;
import android.graphics.Bitmap;
import android.os.Bundle;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
public class MainActivity extends Activity {
  private static final int CAMERA REQUEST = 1888;
  ImageView imageView;
  public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    imageView = (ImageView) this.findViewById(R.id.imageView1);
    Button photoButton = (Button) this.findViewById(R.id.button1);
    photoButton.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View v) {
         Intent cameraIntent = new
Intent(android.provider.MediaStore.ACTION IMAGE CAPTURE);
         startActivityForResult(cameraIntent, CAMERA_REQUEST);
  protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    if (requestCode == CAMERA_REQUEST) {
      Bitmap photo = (Bitmap) data.getExtras().get("data");
      imageView.setImageBitmap(photo);
  @Override
  public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.activity_main, menu);
    return true:
```

```
}
}
```

## activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  xmlns:tools="http://schemas.android.com/tools"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_centerHorizontal="true"
    android:text="Take a Photo" >
  </Button>
  <ImageView
    android:id="@+id/imageView1"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:layout_above="@+id/button1"
    android:layout_alignParentTop="true"
    android:src="@drawable/ic_launcher">
  /ImageView>
</RelativeLayout>
```

