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APP 5: Checkbox and Radiobutton

Aim: Create an app to demonstrate the usage of Checkbox and Radio buttons.

Program Code:

MainActivity.java

```
package com.example.radiocheck;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity
  Button b1;
  RadioGroup rg;
  RadioButton r1,r2;
  CheckBox e,m,h;
  TextView t;
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    b1=(Button) findViewById(R.id.submit);
    r1=(RadioButton) findViewById(R.id.male);
    r2=(RadioButton) findViewById(R.id.female);
    e=(CheckBox)findViewById(R.id.e);
    m=(CheckBox)findViewById(R.id.m);
    h=(CheckBox)findViewById(R.id.h);
    t=(TextView)findViewById(R.id.tv);
    b1.setOnClickListener(new View.OnClickListener()
       @Override
       public void onClick(View view)
         String s[]=new String[3];
         t.setText("Languages Known: ");
         if(e.isChecked())
            t.setText(t.getText().toString()+" "+e.getText());
         if(m.isChecked())
            t.setText(t.getText().toString()+" "+m.getText());
         if(h.isChecked())
           t.setText(t.getText().toString()+" "+h.getText());
```

```
});
    rg=(RadioGroup) findViewById(R.id.rg);
    rg.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener()
       @Override
      public void on Checked Changed (Radio Group group, int checked Id)
         if(checkedId==R.id.female)
           Toast.makeText(getApplicationContext(),r2.getText().toString(),Toast.LENGTH SHORT).
           show();
         else
           Toast.makeText(getApplicationContext(),r1.getText().toString(),Toast.LENGTH SHORT).
           show();
    });
Activity home page.xml
<?xml version="1.0" encoding="utf-8"?>
                                                          android:id="@+id/gender"
                                                          android:text="Choose Gender"
<LinearLayout
xmlns:android="http://schemas.android.com/ap
                                                          android:textSize="20dp"/>
k/res/android"
xmlns:app="http://schemas.android.com/apk/res
                                                       <RadioGroup
                                                          android:layout width="250dp"
                                                          android:layout height="wrap content"
xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
                                                          android:id="@+id/rg"
  android:layout height="match parent"
                                                          android:layout marginTop="150dp"
  tools:context=".MainActivity">
                                                          android:layout marginLeft="50dp">
                                                          <RadioButton
                                                            android:layout width=
  <RelativeLayout
    android:layout width="match parent"
                                                              "wrap content"
    android:layout height="match parent">
                                                            android:layout height=
    <TextView
                                                              "wrap content"
       android:layout width="wrap content"
                                                            android:text="Male"
      android:layout height="30dp"
                                                            android:id="@+id/male"/>
      android:layout marginTop="50dp"
                                                         < Radio Button
      android:layout marginLeft="150dp"
                                                            android:layout width=
      android:id="@+id/h1"
                                                              "wrap content"
      android:text="Registration"
                                                            android:layout height=
      android:textSize="24dp"/>
                                                              "wrap content"
                                                            android:text="Female"
    <TextView
                                                            android:id="@+id/female"/>
      android:layout width="wrap content"
                                                       </RadioGroup>
      android:layout height="30dp"
      android:layout marginTop="100dp"
                                                       <TextView
      android:layout_marginLeft="50dp"
                                                          android:layout width="wrap content"
```

APP 6: Implicit Intent

<u>Aim</u>: Create an app to demonstrate the usage of implicit intent by opening a website form the app.

Program Code:

MainActivityjava

```
package com.example.intent;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity
  Button b;
  TextView t;
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity main);
    b=(Button) findViewById(R.id.b1);
    t=(TextView) findViewById(R.id.t1);
    b.setOnClickListener(new View.OnClickListener()
       @Override
       public void onClick(View view) {
         Intent intent = new Intent(Intent.ACTION VIEW);
         intent.setData(Uri.parse("https://www.cet.ac.in"));
         startActivity(intent);
         t.setText("Youtube Opened");
    });
Activity home page.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/ap
k/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">
```

<RelativeLayout

```
android:layout_width="wrap_content"
android:layout_height="wrap_content">
<TextView
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="IMPLICIT Intent \nTo
Open College Website"
android:layout_marginLeft="115dp"
android:layout_marginTop="100dp"
android:textSize="20sp"> </TextView>

<Button
android:id="@+id/b1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
```

```
android:layout_marginLeft="95dp"
android:layout_marginTop="200dp"
android:text="Open College Website">
</Button>

<TextView
android:id="@+id/t1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text=""
android:layout_marginTop="300dp"
android:layout_marginLeft="150dp"
android:textSize="20sp"></TextView>
</RelativeLayout>
</LinearLayout>
```

Result: The program has executed successfully and output is verified.

APP 9: Spinner

Aim: Create an app to create a spinner and select an item from it.

Program Code:

MainActivity.java

```
package com.example.spinner;
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.TextView;
import android.widget.Toast;
import java.util.ArrayList;
public class MainActivity extends AppCompatActivity
  Spinner s;
  TextView t1;
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    s=(Spinner)findViewById(R.id.sp);
    t1=(TextView) findViewById(R.id.t1);
    ArrayList <String> al=new ArrayList<String>();
    al.add("mango");
    al.add("apple");
    al.add("pineapple");
    al.add("banana");
    ArrayAdapter ad=new ArrayAdapter (this, androidx.appcompat.R.layout.support simple
     spinner dropdown item,al);
    s.setAdapter(ad);
    s.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener()
       @Override
       public void on Item Selected (Adapter View <?> parent, View view, int position, long id)
         t1.setText("Selected Fruit: "+al.get(position));
       @Override
       public void onNothingSelected(AdapterView<?> parent)
         t1.setText("Select a Fruit !!!!");
```

```
});
Activity_home_page.xml
<?xml version="1.0" encoding="utf-8"?>
                                                          android:layout width="wrap content"
                                                          android:layout height="wrap content"
<LinearLayout
xmlns:android="http://schemas.android.com/ap
                                                          android:layout marginLeft="85dp"
k/res/android"
                                                          android:layout marginTop="135dp"
xmlns:app="http://schemas.android.com/apk/re
                                                          android:text="Select Fruit:"
                                                          android:textSize="20dp"></TextView>
s-auto"
xmlns:tools="http://schemas.android.com/tools
                                                       <Spinner
                                                          android:layout width="wrap content"
  android:id="@+id/main"
                                                          android:layout height="wrap content"
  android:layout width="match parent"
                                                          android:layout marginLeft="200dp"
  android:layout height="match parent"
                                                          android:layout marginTop="135dp"
  tools:context=".MainActivity">
                                                          android:id="@+id/sp"></Spinner>
                                                       <TextView
                                                          android:id="@+id/t1"
  <RelativeLayout
    android:layout width="wrap content"
                                                          android:layout width="wrap content"
    android:layout height="wrap content">
                                                          android:layout height="wrap content"
    <TextView
                                                          android:layout marginLeft="150dp"
       android:layout width="wrap content"
                                                          android:layout marginTop="250dp"
      android:layout height="wrap content"
                                                          android:text=""
      android:layout marginLeft="150dp"
                                                          android:textSize="20dp"></TextView>
      android:layout marginTop="50dp"
      android:text="Spinner"
                                                     </RelativeLayout>
       android:textSize="42dp"></TextView>
                                                   </LinearLayout>
    <TextView
```

Result: The program has executed successfully and output is verified.

```
u=sp.getString("username","");
         e=sp.getString("email","");
         txt.setText("Username: "+u+" \nEmail: "+e);
    });
Activity home_page.xml
<?xml version="1.0" encoding="utf-8"?>
                                                        android:layout width="wrap content"
                                                        android:layout height="wrap content"
<LinearLayout
xmlns:android="http://schemas.android.com/ap
                                                        android:text="Write Data"
                                                        android:layout marginTop="50dp"
k/res/android"
                                                        android:id="@+id/btn write"/>
xmlns:app="http://schemas.android.com/apk/re
s-auto"
xmlns:tools="http://schemas.android.com/tools
                                                      <Button
                                                        android:layout width="wrap content"
  android:layout width="match parent"
                                                        android:layout height="wrap content"
  android:layout height="match parent"
                                                        android:text="Read Data"
  tools:context=".MainActivity"
                                                        android:id="@+id/btn read"/>
  android:orientation="vertical"
  android:gravity="center">
                                                      <TextView
                                                        android:id="@+id/text status"
  <TextView
                                                        android:layout width="wrap content"
    android:layout width="wrap content"
                                                        android:layout height="wrap content"
    android:layout height="wrap_content"
                                                        android:layout marginTop="50dp"
    android:text="Shared Preference"
                                                        android:text="STATUS"
    android:textSize="42dp"/>
                                                        android:textSize="22dp"/>
  <Button
                                                    </LinearLayout>
```

Result: The program has executed successfully and output is verified.