

Advanced Mobile Programming

Bachelors in natural science (Government Holkar Science College)



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ADVANCED MOBILE PROGRAMMING

Practical No. 1

(A)

MainActivity.java

```
package com.example.demos;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

AndroidManifest.xml

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
```



```
android:layout_marginTop="296dp"
android:layout_marginEnd="131dp"
android:text="@string/hello_world"
android:textColor="#C51D1D"
             android:layout_alignParentTop="true"
</RelativeLayout>
```



(B)



MainActivity.java

```
package com.example.broadcastreciever;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

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

Rec.java

```
package com.example.broadcastreciever;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.widget.Toast;

public class Rec extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
        Toast.makeText(context, "Airplane Mode", Toast.LENGTH_LONG).show();
    }
}
```

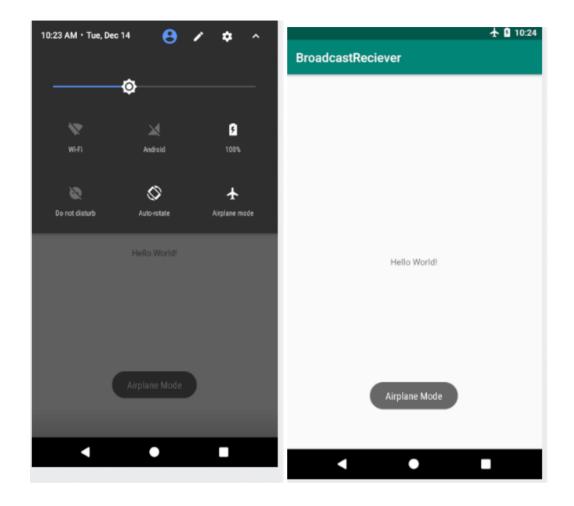
AndroidManifest.xml

Android main.xml

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

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</android.support.constraint.ConstraintLayout>
```



Practical No. 2

Activity main.xml

```
?xml version="1.0" encoding="utf-8"?>
```

Colors.xml



Styles.xml

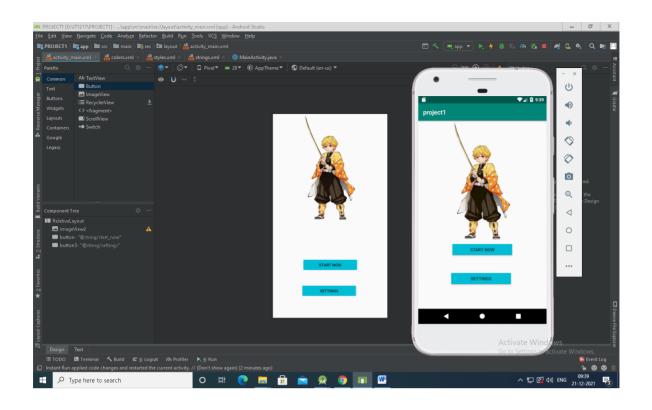
Strings.xml

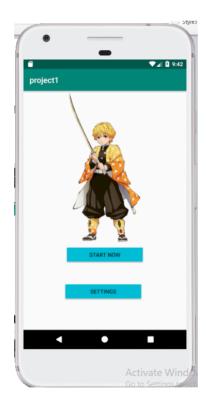
ActivityMain.java

```
package com.example.project1;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

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





Practical No. 3

MainActivity.java

```
package com.example.activitylifecycle;
public class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
    protected void onRestart() {
    protected void onDestroy() {
    protected void onStop() {
```

}





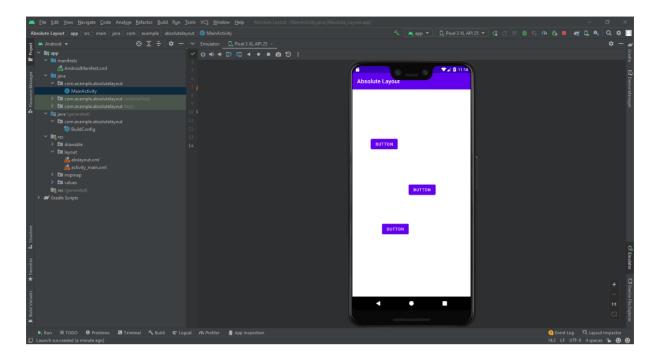
Practical No. 4

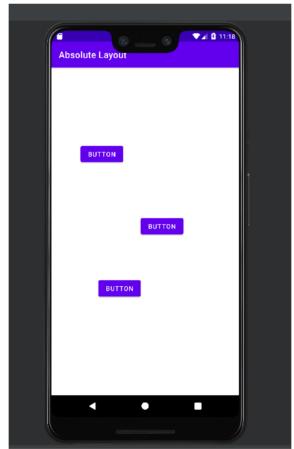
(A)

MainActivity.java

```
package com.example.absolutelayout;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.abslayout);
    }
}
```

Abslayout.xml





(B)

MainActivity.java

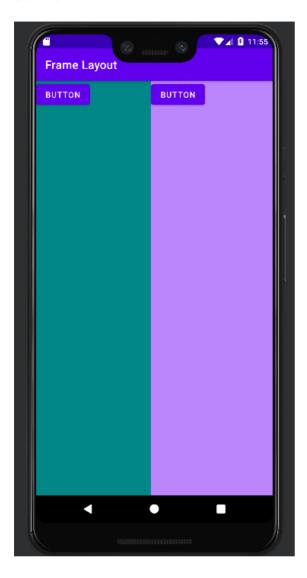
```
package com.example.framelayout;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.framelay);
    }
}
```

Framelay.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

<PrameLayout
    android:layout_width="200dp"
    android:layout_height="match_parent"
    android:layout_height="match_parent"
    android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:d="@+id/button1"
        android:text="Button" />

</p
```



(C)

MainActivity.java

```
package com.example.linearlayout;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.linlay);
}
```

linlay.xml



(D)

MainActivity.java

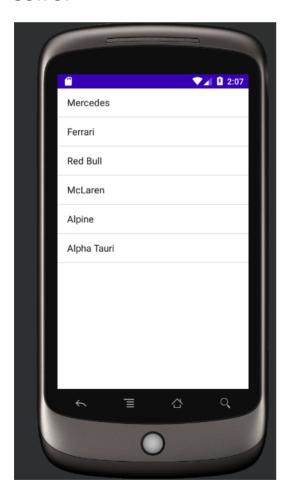
```
package com.example.list;
import androidx.appcompat.app.AppCompatActivity;
import android.app.ListActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;
```

```
public class MainActivity extends ListActivity {
    String [] teams = {"Mercedes", "Ferrari", "Red Bull", "McLaren", "Alpine", "Alpha Tauri"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setListAdapter(new ArrayAdapter<String>(this, android.R.layout.simple_list_item_1, teams));
    }

    @Override
    protected void onListItemClick(ListView l, View v, int position, long id) {
        Toast.makeText(this, "You Selected " + teams[position],
    Toast.LENGTH_SHORT).show();
    }
}
```



MainActivity.java

```
package com.example.relativelayout;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.relative);
    }
}
```

Relative.xml

```
android:layout_marginStart="39dp"
android:layout_marginBottom="317dp"
android:text="Button" />

<Button
    android:id="@+id/button4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="144dp"
    android:text="Button" />

</RelativeLayout>
```



MainActivity.java

```
package com.example.tablelayout;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.tablelay);
    }
}
```

tablelay.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent">

<TableRow
    android:layout_width="match_parent" >

<TableRow
    android:layout_height="match_parent" >

<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_height="wrap_content"
    android:background="#00BCD4"
    android:text="Table 1"
    android:textSize="40sp"/>

</TableRow>

<TableRow
    android:layout_width="match_parent"
    android:layout_height="match_parent" >

<Button
    android:layout_height="wrap_content"
    android:layout_height="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button" />

<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_height="wrap_content"
```





Practical No. 5

(A)

MainActivity.java



```
c3.setChecked(false);
    r1.clearCheck();
}

public void submit(View v) {
    StringBuffer sb = new StringBuffer();
    sb.append(e1.getText().toString()+"\n");
    sb.append(e2.getText().toString()+"\n");

    if(c1.isChecked()==true) {
        sb.append(c1.getText());
    }
    if(c2.isChecked()==true) {
        sb.append(c2.getText());
    }
    if(c3.isChecked()==true) {
        sb.append(c3.getText());
    }

    int selection = r1.getCheckedRadioButtonId();
    rb1 = findViewById(selection);
    sb.append(rb1.getText().toString());

    tv2.setText(sb.toString());
}
```

Activity_main.xml

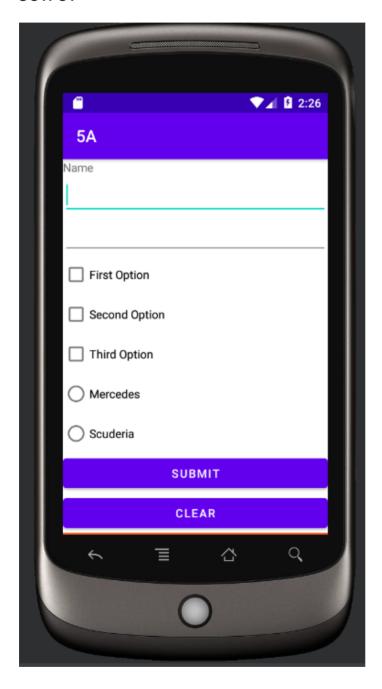
```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"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

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Name" />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:imputType=""
        android:imputType=""
        android:imputType=""
        android:id="@+id/editTextTextPersonName2"
        android:layout_width="match_parent"</pre>
```



```
android:id="@+id/textView2"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#FF5722"
    android:textSize="34sp"/>
</LinearLayout>
```



MainActivity.java

```
import android.graphics.Color;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.LinearLayout;
import android.widget.Toast;
     protected void onCreate(Bundle savedInstanceState) {
     public boolean onOptionsItemSelected(@NonNull MenuItem item) {
Toast. LENGTH SHORT) . show();
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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity"
    android:id="@+id/LinearLayout">
    <include
        layout="@layout/app_bar_layout"/>
    </LinearLayout>
```

App bar layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.appcompat.widget.Toolbar
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:layout_width="match_parent"
   android:layout_height="100dp"
   android:background="@color/teal_700"
   android:id="@+id/ToolbarId">
</androidx.appcompat.widget.Toolbar>
```

Practical No. 6

MainActivity.java

```
protected void onCreate(Bundle savedInstanceState) {
```

Alert_dialog.java

```
package com.example.a6_alertdialog;
import android.app.AlertDialog;
import android.app.Dialog;
import android.content.DialogInterface;
```



Dialog frag.java

```
package com.example.a6_alertdialog;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.DialogFragment;

public class dialog_frag extends DialogFragment {
    @Nullable
    @Override
```

```
public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
ViewGroup container, @Nullable Bundle savedInstanceState) {
     View v = inflater.inflate(R.layout.second_layout,container,false);
     getDialog();
     return v;
   }
}
```

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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity" >

    <Button
        android:layout_width="match_parent"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="button1_click"
        android:textSize="35sp"/>

    <Button
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Alert Dialog"
        android:textSize="35sp"/>

</LinearLayout>
```

Second layout.xml









Practical No. 7

(A)

MainActivity.java

MyReceiver.java

```
package com.example.explicitintent;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
```

```
public class MyReceiver extends AppCompatActivity {
   TextView t;

   @Override
   protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.second_file);
        t = findViewById(R.id.textView);

        Intent i = getIntent();
        String s1 = i.getStringExtra("msg");
        t.setText("Good Evening"+s1);
    }
}
```

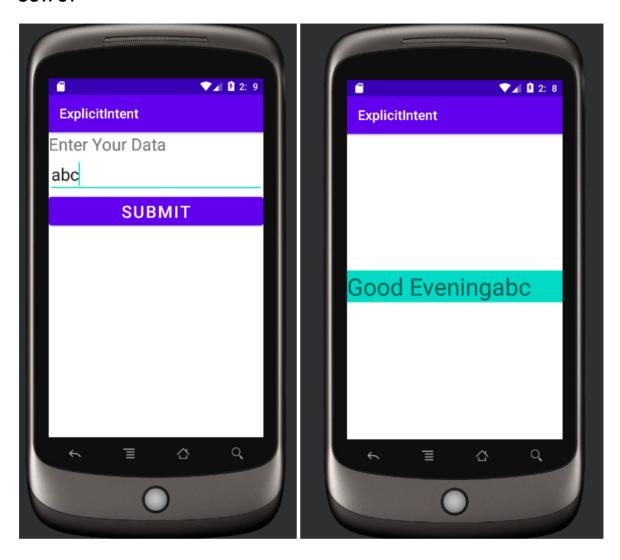
Activity_main.xml

```
<?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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">
```

Second_file.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent">
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:textSize="35sp"
        android:background="@color/teal_200"/>
</RelativeLayout>
```



(B)

```
package com.example.implicitintent;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
```

Activty_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:cools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity" >

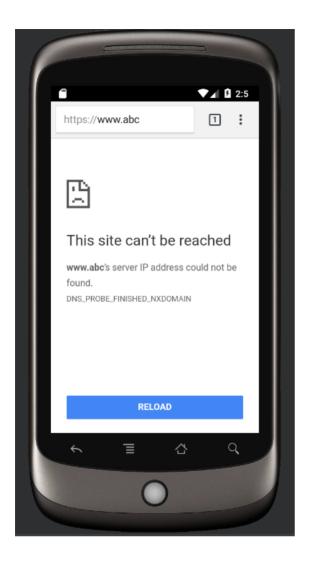
    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Enter URL"
        android:textSize="35sp"/>

    <EditText
        android:layout_height="match_parent"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:inputType="textPersonName"
        android:inputType="textPersonName"
        android:dextSize="48dp" />

    <Button
        android:id="@+id/button"</pre>
```

```
android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:text="Ok"
   android:textSize="35sp"/>
</LinearLayout>
```





Practical No. 8

(A)

MainActivity.java

```
package com.example.a8a_services;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        Intent i;
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void start_service(View v) {
        Intent i = new Intent(this,new_service.class);
        startService(i);
    }
    public void stop_service(View v) {
        Intent i = new Intent(this,new_service.class);
        stopService(i);
    }
}
```

New services.java

```
package com.example.a8a_services;
import android.app.Service;
import android.content.Intent;
import android.os.IBinder;
import android.widget.Toast;
import androidx.annotation.Nullable;
import java.security.Provider;
public class new_service extends Service {
    @Nullable
```



```
@Override
public IBinder onBind(Intent intent) {
    return null;
}

@Override
public int onStartCommand(Intent intent, int flags, int startId) {
    Toast.makeText(this, "Service Started", Toast.LENGTH_SHORT).show();
    return START_STICKY;
}

@Override
public void onDestroy() {
    Toast.makeText(this, "Service Destroyed", 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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity" >

    <Button
        android:layout_width="match_parent"
        android:layout_beight="wrap_content"
        android:layout_beight="wrap_content"
        android:conClick="start"
        android:textSize="25sp"/>

    <Button
        android:d="@+id/button2"
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_beight="wrap_content"
        android:layout_beight="wrap_content"
        android:text="Stop"
        android:text="Stop"
        android:textSize="25sp"/>

</LinearLayout>
```





(B)

```
package com.example.a8b_notification;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationCompat;

import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Context;
import android.content.Intent;
import android.view.View;
import android.view.View;
import android.widget.Button;
```

```
public class MainActivity extends AppCompatActivity {
   Button b;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b = findViewById(R.id.button);
   }
   public void addNotification(View v) {
        NotificationCompat.Builder n = new NotificationCompat.Builder(this);
        n.setSmallIcon(R.drawable.ic_launcher_background);
        n.setContentTitle("NotificatIon Title");
        n.setContentText("Content of the Notification");
        n.setAutoCancel(true);
        Intent i = new Intent(this, NotificationView.class);
        i.putExtra("msg", "This is the notification body");
        PendingIntent pi =
    PendingIntent.getActivity(this,0,i,PendingIntent.FLAG_UPDATE_CURRENT);
        n.setContentIntent(pi);
        NotificationManager m =
   (NotificationManager) getSystemService(Context.NOTIFICATION_SERVICE);
        m.notify(0,n.build());
    }
}
```

NotificationView.java

```
package com.example.a8b_notification;
import android.os.Bundle;
import android.widget.TextView;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

public class NotificationView extends AppCompatActivity {
    TextView t;

    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.second_layout);
        t = findViewById(R.id.textView);

        String s = getIntent().getStringExtra("msg");
```

```
t.setText(s);
}
```

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=".MainActivity">

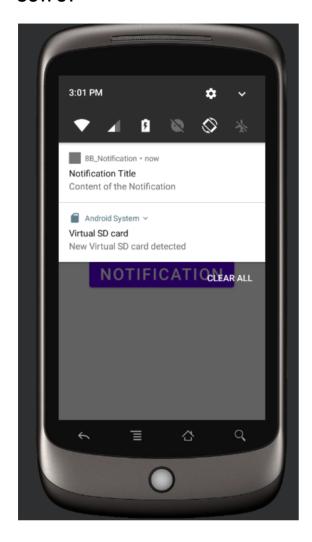
    <Button
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:text="Notification"
        android:textSize="25sp"
        android:onClick="addNotification"/>

    </RelativeLayout>
```

Second_layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent">
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_width="wrap_content"
        android:textSize="25sp"
        android:background="@color/teal_700" />
</RelativeLayout>
```



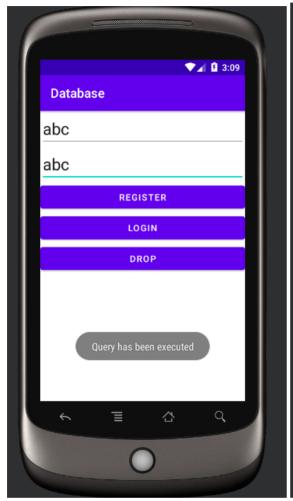
Practical No.9

```
public class MainActivity extends AppCompatActivity {
          Cursor c = sdb.rawQuery(q,null);
```

```
Toast.LENGTH SHORT).show();
       sdb.execSQL(q);
Toast.LENGTH SHORT).show();
  public void Drop(View v) {
       mdb.onUpgrade(sdb,1,2);
Toast.LENGTH SHORT).show();
  public MyDb(Context c) { super(c, "logindb", null, 1); }
  public void onCreate(SQLiteDatabase db) {
   public void onUpgrade(SQLiteDatabase db, int i, int i1) {
```

Activity main.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
```







Practical No. 10

(A)

```
m = new MediaController(this);
R.raw.video);
```



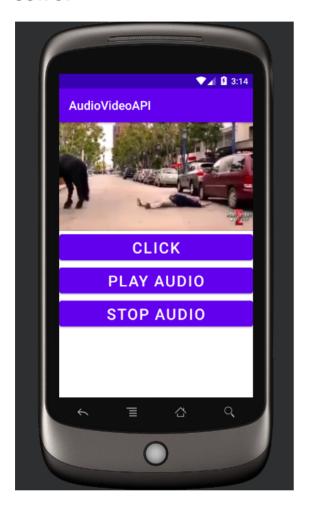
```
Toast.makeText(this, "Media has started", Toast.LENGTH_SHORT).show();
}

public void pause(View view) {
    super.onPause();
    mp.release();
    i.setVisibility(view.INVISIBLE);
}
```

activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
```

```
app:srcCompat="@drawable/ic_launcher_foreground"
    android:background="@color/black"
    android:visibility="invisible"/>
</LinearLayout>
```



(B)

```
package com.example.telephoneapi;
import androidx.appcompat.app.AppCompatActivity;
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 android.widget.Toast;

public class MainActivity extends AppCompatActivity {

   Button bl;
   EditText Edt;

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

        b1 = findViewById(R.id.button);
        Edt = findViewById(R.id.Edt);
   }

   public void call(View v) {
        Toast.makeText(this, "Button Clicked", Toast.LENGTH_SHORT).show();

        Intent i = new Intent(Intent.ACTION_CALL, Uri.parse("tel:" +
Edt.getText().toString()));
        startActivity(i);
   }
}
```

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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity" >

    <EditText
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:inputType="phone"
        tools:ignore="SpeakableTextPresentCheck" />

    <Button
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"</pre>
```

```
android:text="Emergency Call"
    android:textSize="34sp"
    android:onClick="call"/>
</LinearLayout>
```



Practical No. 11

```
package com.example.demo;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
         b1.setOnClickListener(new View.OnClickListener() {
    public void checkPermission(String permission, int requestCode)
String[]{permission}, requestCode);
```

```
public void onRequestPermissionsResult(int requestCode, @NonNull String[]
permissions, @NonNull
Toast.LENGTH SHORT).show();
grantResults[0]==PackageManager.PERMISSION GRANTED){
```

activty mian.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:layout_width="match_parent"
   android:layout_height="match_parent"
   tools:context=".MainActivity">
```



