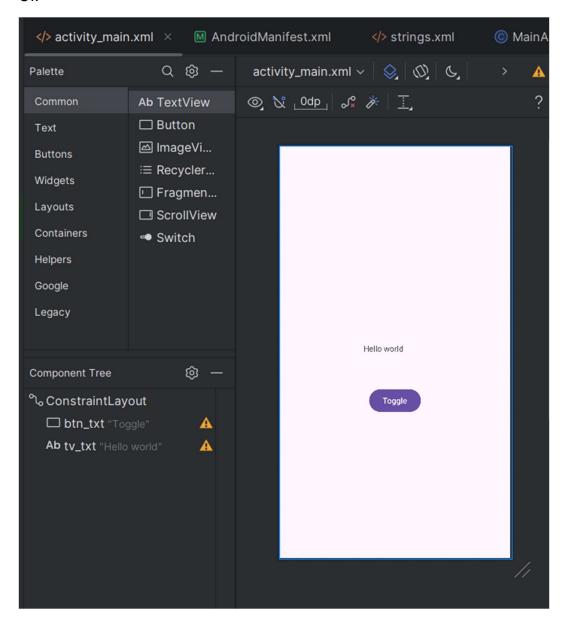
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1	Write an android application to toggle the content of the	21/12/	
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3	Write an android application to accept number from user and	3/1/20	
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4	Write an android application that demonstrate explicit intent	11/1/2	
	using two activity one will take login credentials and other will	024	
	check whether the credentials are correct and appropriately toast message to user.		
5	Write an android application to demonstrate Activity Lifecycle.	24/1/2	
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7	Write an Android Application to demonstrate	15/2/2	
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8	Write an Android Application to demonstrate	22/2/2	
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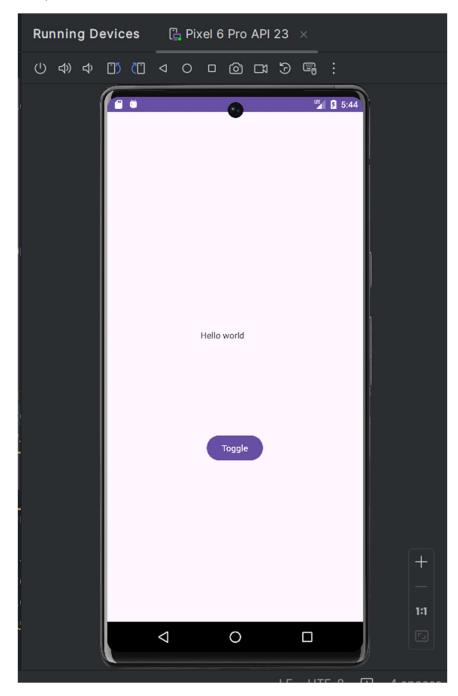
Aim: Write an android application to toggle the content of the textview on click of a button.

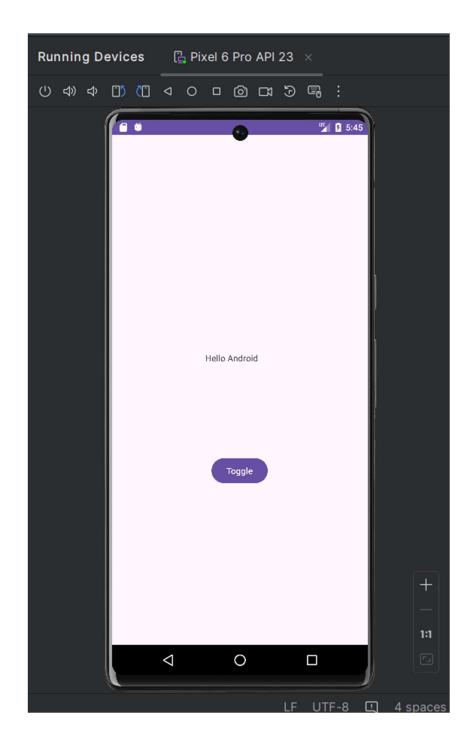
UI:



Code:

Strings.xml file





Aim: Write an Android application with an Image View and Button. Onclick of the button the visibility of the image should toggle.

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res-auto"
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">

<ImageView
    android:id="@+id/imageView"
    android:layout_width="wrap_content"
    android:layout_meight="wrap_content"
    android:layout_marginTop="117dp"
    android:layout_marginEnd="78dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:srcCompat="@drawable/hi" />

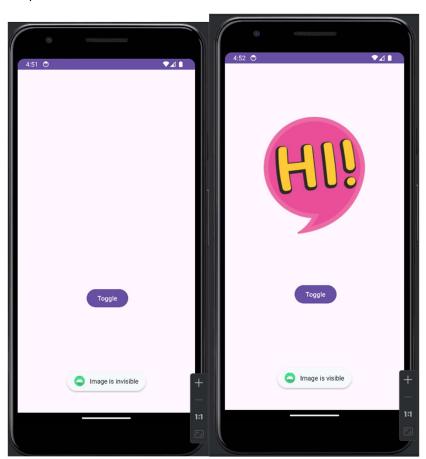
<Button
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_marginStart="163dp"
    android:layout_marginStart="163dp"
    android:layout_marginBottom="121dp"
    android:layout_marginBottom="121dp"
    android:text="Toggle"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndO
```

ActivityMain.java

```
package com.example.prac2imagetoggle;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    Button btn;
    ImageView iv;

    @Override
```



Aim: - Write an Android application to accept two numbers from users and perform an arithmetic operation(Addition, subtraction, Multiplication and Division)as per user's choice using radio button. The result should be displayed in toast.

activity_main.xml

```
android:layout height="wrap content"
android:inputType="text"
app:layout constraintStart toStartOf="parent"
android:inputType="text"
app:layout constraintBottom toTopOf="@+id/radiogrp"
app:layout constraintVertical bias="0.148" />
```

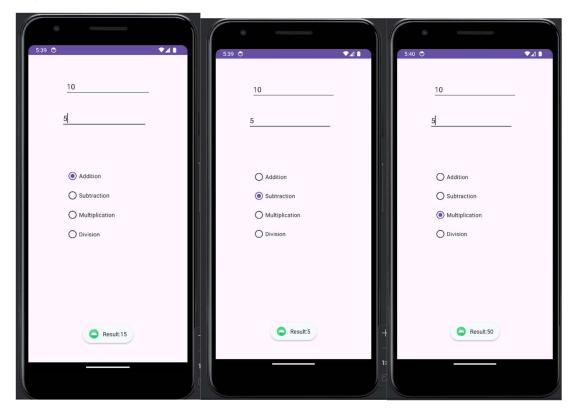
```
package com.example.prac3calc;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    EditText t1,t2;
    RadioGroup rg;
    RadioButton add,sub,mul,div;
    Button btn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        t1=findViewById(R.id.t1);
        t2=findViewById(R.id.t2);
        rg=findViewById(R.id.radiogrp);
        add=findViewById(R.id.add);
        sub=findViewById(R.id.add);
        sub=findViewById(R.id.mul);
        mul=findViewById(R.id.mul);
```

```
div=findViewById(R.id.div);
                    num2=Integer.parseInt(t2.getText().toString());
Toast.LENGTH SHORT).show();
       sub.setOnClickListener(new View.OnClickListener() {
                int num1=Integer.parseInt(t1.getText().toString());
                int res=num1-num2;
                Toast.makeText(MainActivity.this, "Result:"+res,
                int num1=Integer.parseInt(t1.getText().toString());
                int num2=Integer.parseInt(t2.getText().toString());
               int res=num1*num2;
                int num1=Integer.parseInt(t1.getText().toString());
                int num2=Integer.parseInt(t2.getText().toString());
               int res=num1/num2;
                Toast.makeText(MainActivity.this, "Result:"+res,
Toast.LENGTH SHORT).show();
```

output:





Aim: write an android app with two activities namely, main activity and second activity, the username and password from the main activity is passed to the second activity and it is validated.

Activity_main.xml

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
        android:layout width="wrap content"
        android:inputType="text"
        app:layout constraintVertical bias="0.306" />
    <EditText
        android:inputType="text"
        app:layout constraintStart toStartOf="parent" />
        android:layout height="wrap content"
        android:text="LOG IN"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent" />
```

```
Activity_second.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=".SecondActivity">

</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
import android.content.Intent;
    protected void onCreate(Bundle savedInstanceState) {
        setContentView(R.layout.activity main);
              u=user.getText().toString();
              p=pass.getText().toString();
                startActivity(intent1);
```

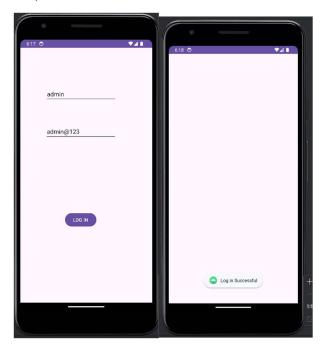
SecondActivity.java

```
package com.example.prac4login;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
```

```
import android.widget.Toast;
public class SecondActivity extends AppCompatActivity {
    String us,ps;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Intent intent2=getIntent();
        us=intent2.getStringExtra("username");
        ps=intent2.getStringExtra("password");

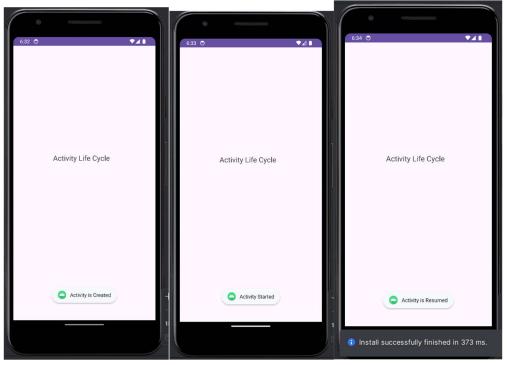
        if (us.equals("admin")&& ps.equals("admin@123")) {
            Toast.makeText(this, "Log in Successful",
            Toast.LENGTH_SHORT).show();
        }
        else {
            Toast.makeText(this, "Incorrect Credentials",
            Toast.LENGTH_SHORT).show();
        }
    }
}
```



Aim: Write an Android program to demonstrate Activity life cycle.

```
package com.example.prac5activitylifecycle;
import android.os.Bundle;
import android.widget.Toast;
    protected void onCreate(Bundle savedInstanceState) {
    protected void onResume() {
        super.onResume();
       super.onPause();
Toast.LENGTH SHORT).show();
        super.onDestroy();
```

```
Toast.makeText(this, "Activity is Destroyed",
Toast.LENGTH_SHORT).show();
}
```





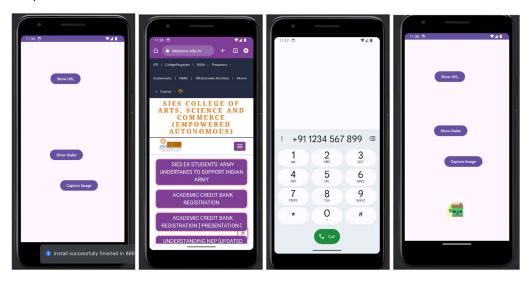
Aim: Write an android application to implement implicit intent to show a web url, dialer and capture image with device camera.

Activity_main.xml

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    android: layout width="match parent"
        android:layout width="wrap content"
        android:text="Show URL"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintHorizontal bias="0.642"
        app:layout constraintStart toStartOf="parent" />
        android:layout width="wrap content"
    <ImageView</pre>
```

```
android:layout_height="wrap_content"
android:layout_marginStart="133dp"
android:layout_marginEnd="150dp"
android:layout_marginBottom="91dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
tools:srcCompat="@tools:sample/avatars" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
package com.example.prac6implicitintent;
public class MainActivity extends AppCompatActivity {
       url=findViewById(R.id.url);
       dial=findViewById(R.id.dial);
        cap=findViewById(R.id.cap);
        url.setOnClickListener(new View.OnClickListener() {
Uri.parse("https://siesascs.edu.in/"));
                startActivity(intent1);
        dial.setOnClickListener(new View.OnClickListener() {
                startActivity(intent2);
```



Aim: Write an android application to demonstrate the use of Options Menu, Floating Context Menu and Contextual Action Bar Menu.

Activity_main.xml

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
        android:layout width="78dp"
        android:layout_marginEnd="177dp"
        android:text="TextView"
        android:layout_marginStart="137dp"
```

Menu1.xml

Menu2.xml

Menu3.xml

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

Themes.xml (both light and night)

```
package com.example.prac7menu;
import android.os.Bundle;
import android.view.ActionMode;
import android.view.ContextMenu;
import android.view.Menu;
import android.view.MenuItem;
import android.view.Welw;
import android.widget.ImageView;
import android.widget.Toast;
import android.widget.Toast;
import android.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;
public class MainActivity extends AppCompatActivity {
    ImageView img;
    TextView t1;
    private ActionMode actionmode;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

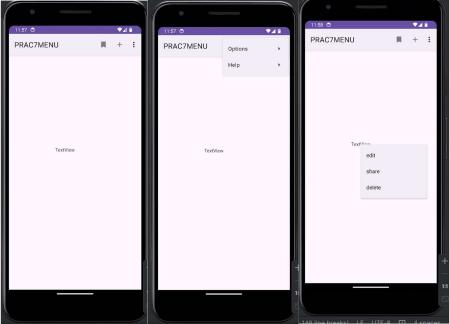
    tl=findViewById(R.id.textid);
    registerForContextMenu(t1);
    img=findViewById(R.id.imageView);
    img.setOnLongClickListener(new View.OnLongClickListener() {
        @Override
```

```
public boolean onLongClick(View view) {
public boolean onCreateOptionsMenu(Menu menu) {
   getMenuInflater().inflate(R.menu.menu1, menu);
    } else if (item.getItemId() == R.id.action favorite) {
    public boolean onCreateActionMode (ActionMode actionMode, Menu menu)
```

```
public boolean onActionItemClicked(ActionMode actionMode, MenuItem
menuItem) {
            if (menuItem.getItemId() == R.id.editid) {
                Toast.makeText (MainActivity.this, "edit selected",
        public void onDestroyActionMode (ActionMode actionMode) {
        super.onCreateContextMenu(menu, v, menuInfo);
        getMenuInflater().inflate(R.menu.menu2,menu);
        if (item.getItemId() == R.id.editid) {
```

```
return super.onContextItemSelected(item);
}
}
```

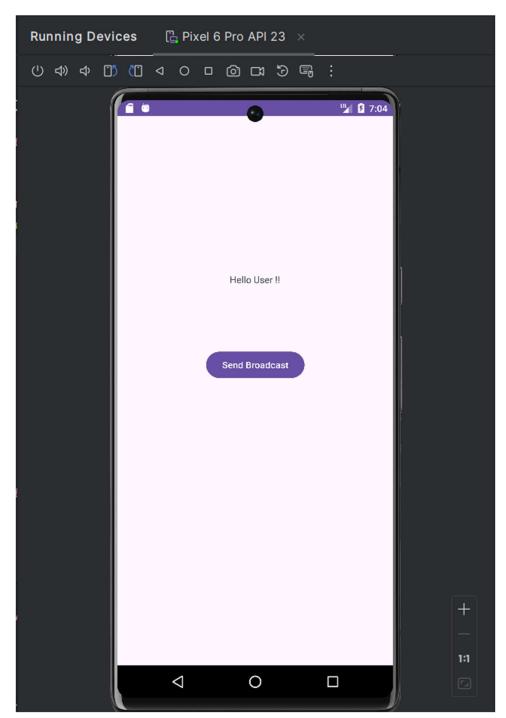
output:





Aim: Write an Android Application to demonstrate Broadcasting in android.

Ui:



Code:

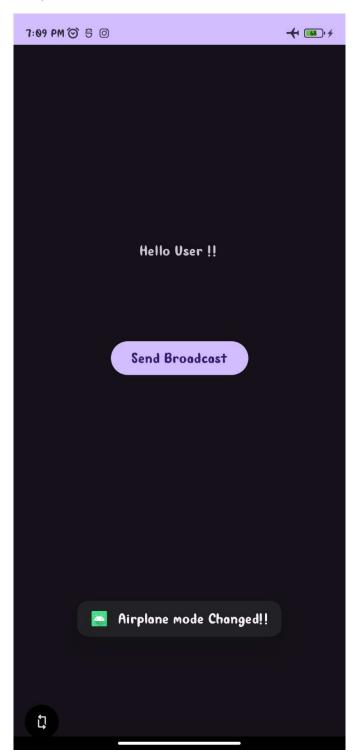
MainActivity.java

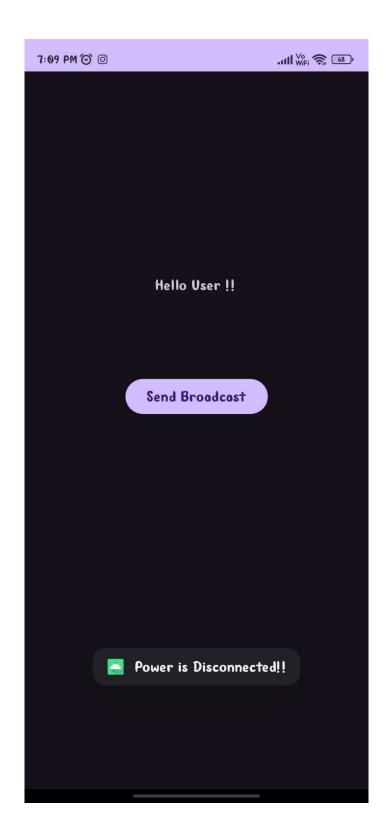
```
package com.example.practical8;
import androidx.appcompat.app.AppCompatActivity;
    private MyReceiver2 mReceiver= new MyReceiver2();
    static final String ACTION CUSTOM BROADCAST=
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        IntentFilter filter = new IntentFilter();
        filter.addAction(Intent.ACTION POWER CONNECTED);
        filter.addAction(Intent.ACTION BATTERY LOW);
        filter.addAction(Intent.ACTION POWER DISCONNECTED);
                new IntentFilter(ACTION CUSTOM BROADCAST));
```

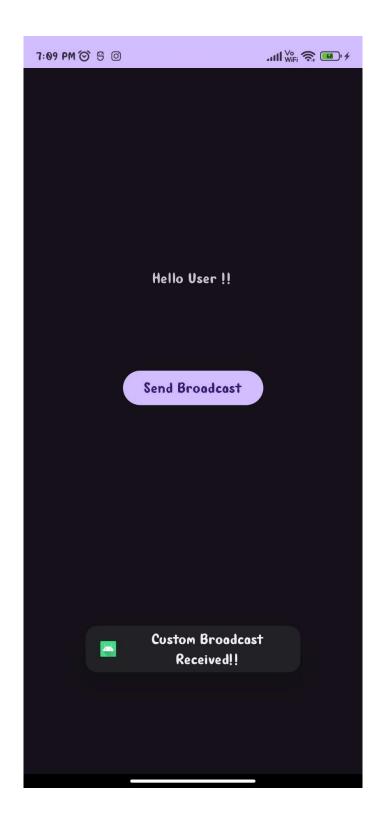
Strings.xml

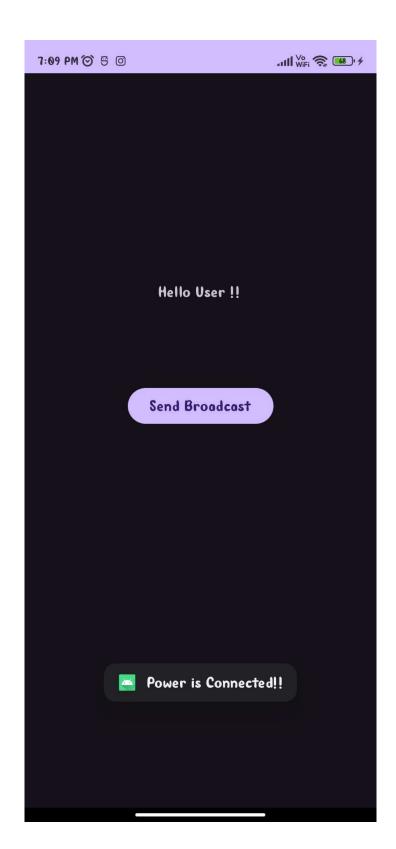
MyReceiver2.java

```
package com.example.practical8;
import android.content.BroadcastReceiver;
import android.widget.Toast;
                    msg= "Power is Disconnected!!";
            Toast.makeText(context,msg,Toast.LENGTH LONG).show();
```



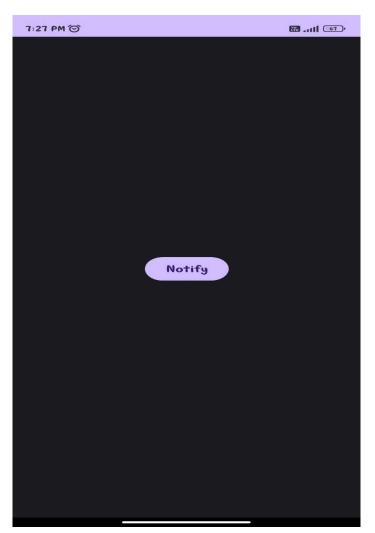






Aim: Write an Android Application to demonstrate Notifications in android.

UI:



Code:

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">
    <uses-permission android:name="android.permission.POST_NOTIFICATIONS">
    </uses-permission>
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data extraction rules"</pre>
```

SecondActivity.java

```
package com.example.practical9;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.Toast;

public class SecondActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Toast.makeText(this,"We are in the notified Activity",
    Toast.LENGTH_LONG).show();
    }
}
```

