

## **Objective of Practical-1**

**Create “Hello World” application that will display “Hello World” in the middle of the screen in the emulator. Also display “Hello World” in the middle of the screen in the android phone.**

### **Code:**

#### **activity\_main.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">
<TextView
android:id="@+id/hello"
android:layout_width="240dp"
android:layout_height="220dp"
android:gravity="center"
android:text="Hello World"
android:textSize="40dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

#### **MainActivity.java**

```
package com.practical_1;
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.activity_main);
}
}
```

### **Output:**



## **Objective of Practical-2**

**Create an application to display various android activity lifecycle phases.**

**Code:**

**activity\_main.xml**

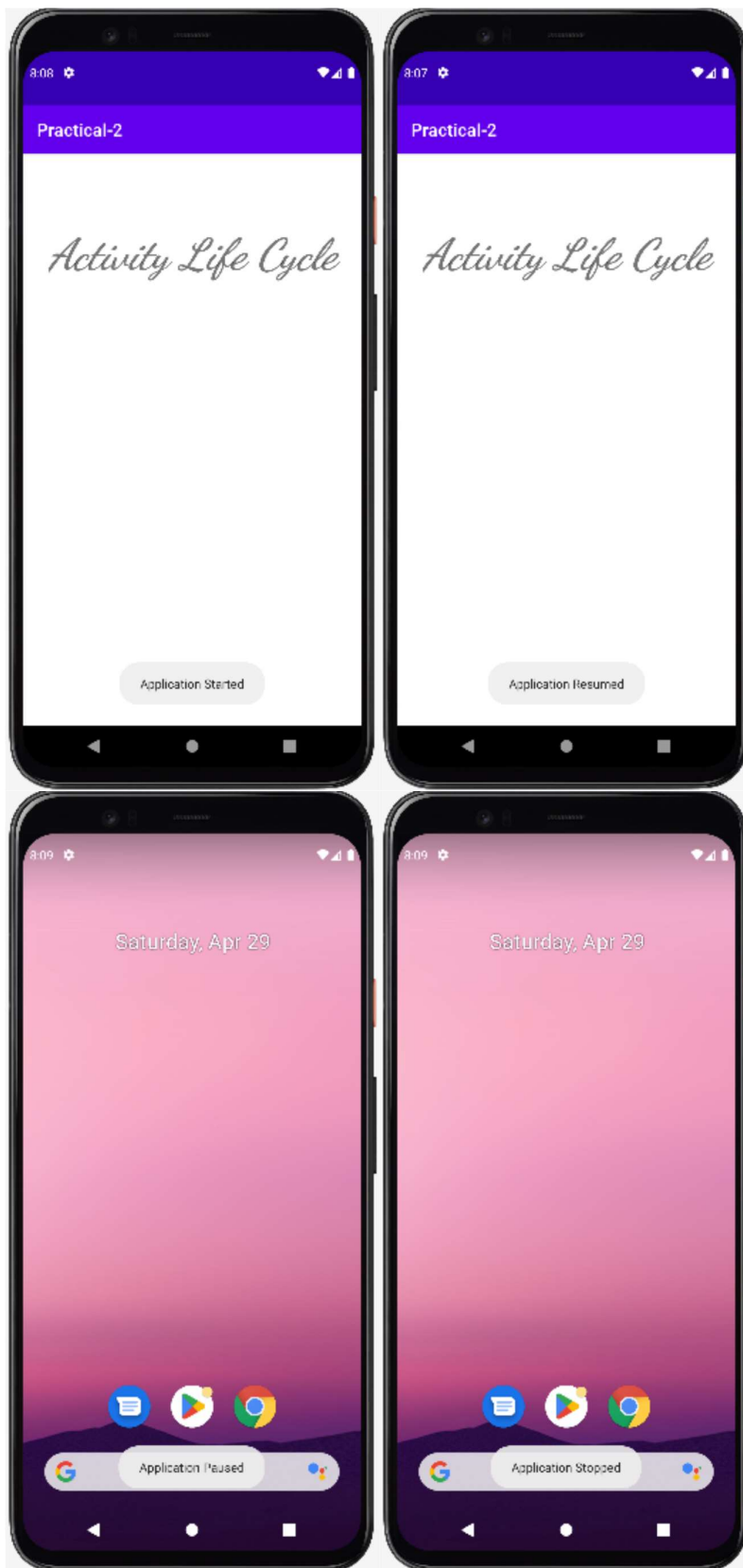
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TextView
        android:layout_width="362dp"
        android:layout_height="138dp"
        android:text="Activity Life Cycle"
        android:gravity="center"
        android:textSize="50dp"
        android:fontFamily="cursive"
        android:textStyle="bold|italic"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
```

```

app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.091" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.practical_2;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.os.Bundle;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    @Override
    protected void onStart() {
        super.onStart();
        Toast.makeText(MainActivity.this,"Application
        Started",Toast.LENGTH_SHORT).show();
    }
    @Override
    protected void onStop() {
        super.onStop();
        Toast.makeText(MainActivity.this,"Application
        Stopped",Toast.LENGTH_SHORT).show();
    }
    @Override
    protected void onRestart() {
        super.onRestart();
        Toast.makeText(MainActivity.this,"Application
        Restarted",Toast.LENGTH_SHORT).show();
    }
    @Override
    protected void onPause() {
        super.onPause();
        Toast.makeText(MainActivity.this,"Application
        Paused",Toast.LENGTH_SHORT).show();
    }
    @Override
    protected void onResume() {
        super.onResume();
        Toast.makeText(MainActivity.this,"Application
        Resumed",Toast.LENGTH_SHORT).show();
    }
}

```

**Output:**





### **Objective of Practical-3**

**Create an application with first activity with an editText and send button. On click of send button, make use of explicit intent to send text to second activity and display there in text view.**

#### **Code:**

##### **activity\_main.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">
<EditText
android:id="@+id/message"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
android:inputType="textPersonName"
tools:layout_editor_absoluteX="100dp"
tools:layout_editor_absoluteY="223dp"
```

```

        android:text="Name"
        android:gravity="center"
        android:textSize="25dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.115"/>
        <Button
            android:id="@+id/send"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Send"
            android:gravity="center"
            android:textSize="25dp"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.497"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="0.7"
        />
    </androidx.constraintlayout.widget.ConstraintLayout>
activity_main2.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=".MainActivity2">
    <TextView
        android:id="@+id/textView"
        android:layout_width="156dp"
        android:layout_height="73dp"
        android:gravity="center"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.112" />
    </androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.practical_3;
import androidx.appcompat.app.AppCompatActivity;

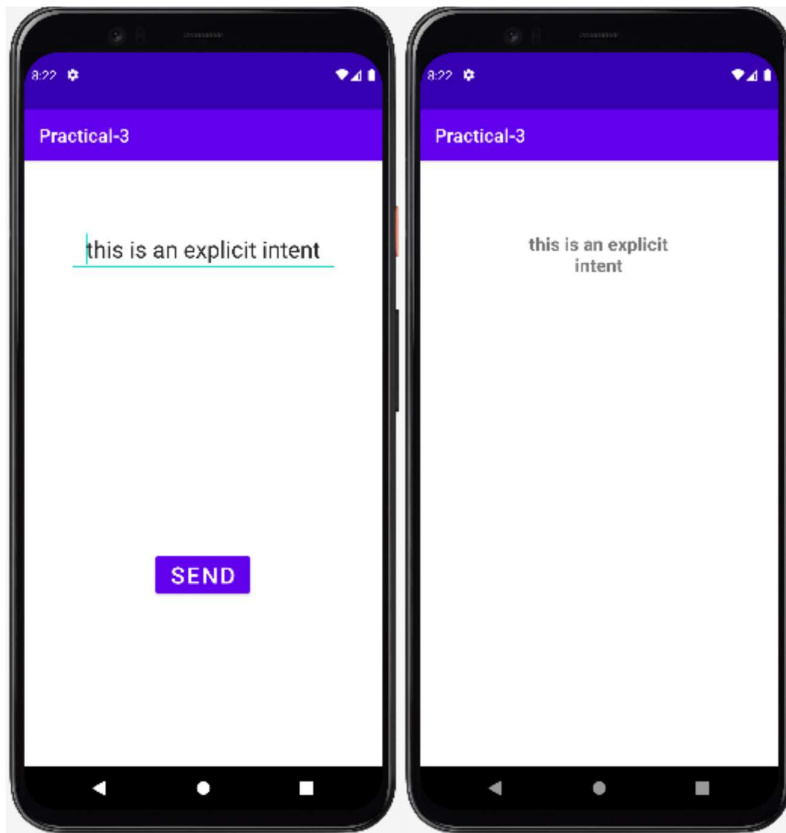
```

```

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    Button send;
    EditText message;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        message=findViewById(R.id.message);
        send=findViewById(R.id.send);
        send.setOnClickListener(new View.OnClickListener(){
            @Override
            public void onClick(View view) {
                Intent i=new Intent(MainActivity.this,MainActivity2.class);
                String st=message.getText().toString();
                i.putExtra("Value",st);
                startActivity(i);
                finish();
            }
        });
    }
}
MainActivity2.java
package com.practical_3;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
    TextView tt;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        tt=findViewById(R.id.textView);
        tt.setText(getIntent().getStringExtra("Value").toString());
    }
}

```

**Output:**



#### **Objective of Practical-4:**

**Create an application with first activity with an editText and send . On click of send button, make use of implicit intent that uses a SEND ACTION and let user select app from app chooser and navigate to that application.**

#### **Code:**

##### **activity\_main.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">
<EditText
android:id="@+id/message"
android:layout_width="220dp"
android:layout_height="50dp"
android:hint="Enter the Message"
android:ems="10"
android:inputType="textPersonName"
```



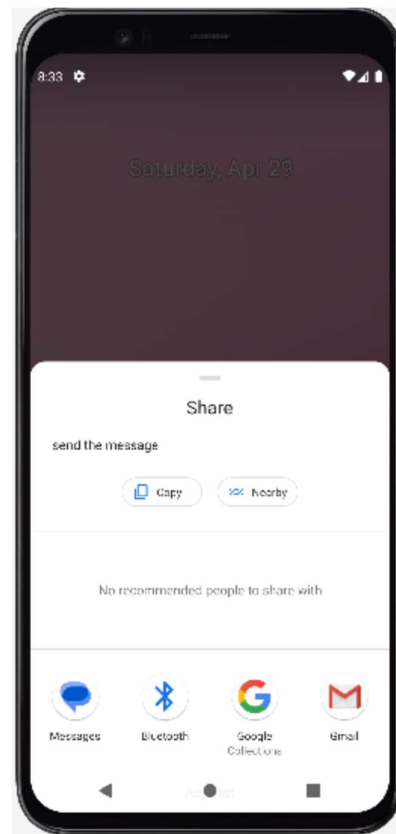
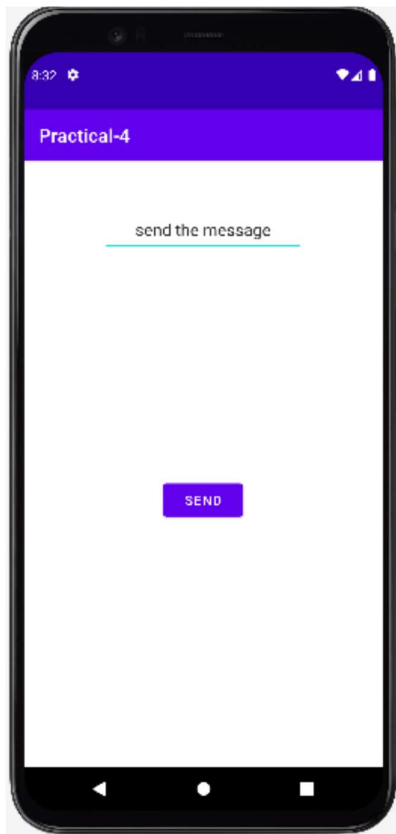
```

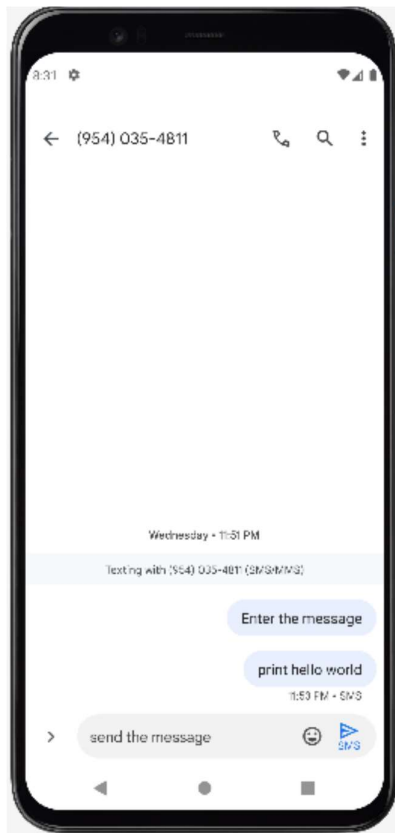
android:text=""
android:gravity="center"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.497"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.083" />
<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Send"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.565" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.practical_4;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    EditText message;
    Button send;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        message=findViewById(R.id.message);
        send=findViewById(R.id.button);
        send.setOnClickListener(new View.OnClickListener(){
            @Override
            public void onClick(View view)
            {
                String st=message.getText().toString();
                Intent i=new Intent(Intent.ACTION_SEND);
                i.setType("text/plain");
                i.putExtra(Intent.EXTRA_TEXT,st);
                startActivity(Intent.createChooser(i,"Send"));
                finish();
            }
        });
    }
}

```

}

**Output:**





### **Objective of Practicac1-5:**

**Create spinner with strings taken from resource folder (res >> value folder) and on changing the spinner value, Image will change.**

### **Code:**

#### **activity\_main.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">
    <Spinner
        android:id="@+id/spinner"
        android:layout_width="190dp"
        android:layout_height="wrap_content"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintVertical_bias="0.215"
```

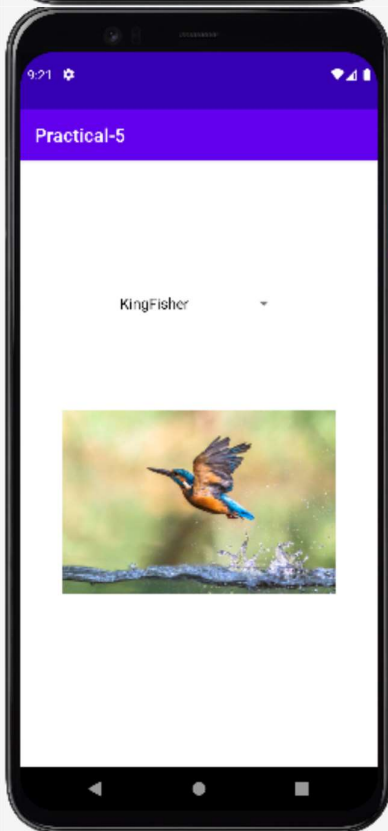
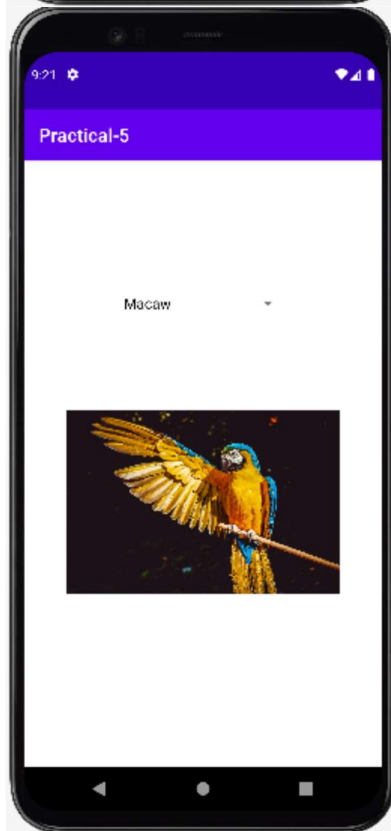
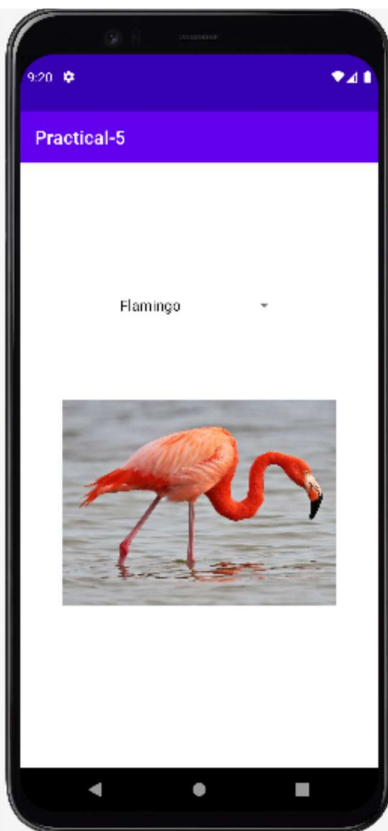
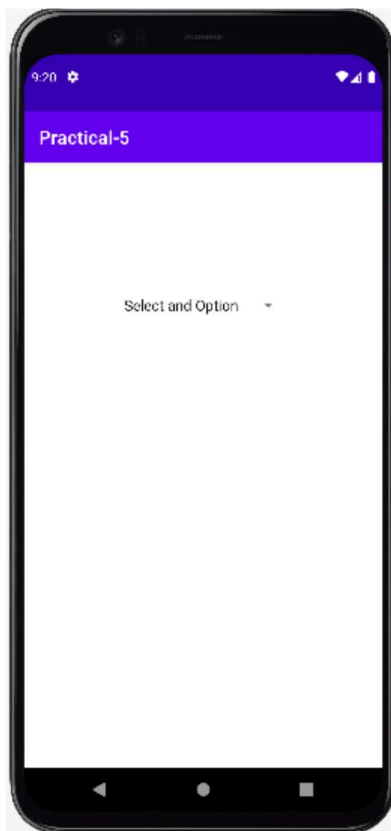
```

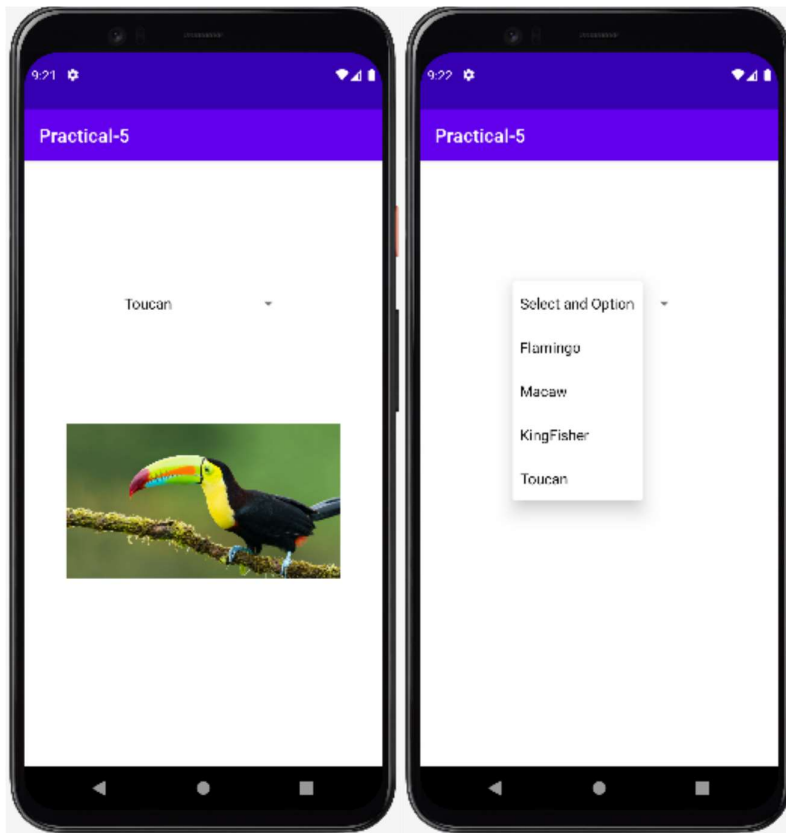
/>
<ImageView
    android:id="@+id/image"
    android:layout_width="300dp"
    android:layout_height="300dp"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintVertical_bias="0.615"/>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.practical_5;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.Spinner;
public class MainActivity extends AppCompatActivity {
    Spinner sp;
    ImageView image;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        sp=findViewById(R.id.spinner);
        image=findViewById(R.id.image);
        String []birds={"Select and",
            "Option", "Flamingo", "Macaw", "KingFisher", "Toucan"};
        ArrayAdapter<String> adapter =new
            ArrayAdapter<String>(getApplicationContext(),
                android.R.layout.simple_spinner_dropdown_item,birds);
        sp.setAdapter(adapter);
        sp.setOnItemClickListener(new
            AdapterView.OnItemClickListener() {
                @Override
                public void onItemClick(AdapterView<?> adapterView, View
                    view, int i,
                    long l) {
                    switch (i){
                        case 1:
                            image.setImageResource(R.drawable.flamingo);
                            break;
                        case 2:
                            image.setImageResource(R.drawable.macaw);
                            break;
                        case 3:
                            image.setImageResource(R.drawable.kingfisher);

```

```
break;
case 4:
image.setImageResource(R.drawable.toucan);
break;
default:
image.setImageResource(0);
break;
}
}
@Override
public void onNothingSelected(AdapterView<?> adapterView) {
}
});
}
}
```

**Output:**





### **Objective of Practical-6:**

**Create a menu with 5 options and selected option should appear in text box in upper case.**

### **Code:**

#### **activity\_main.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">
<TextView
android:id="@+id/edittext"
android:layout_width="220dp"
android:layout_height="220dp"
android:hint="Select any option\nfrom the menu"
android:gravity="center"
android:textSize="35dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```

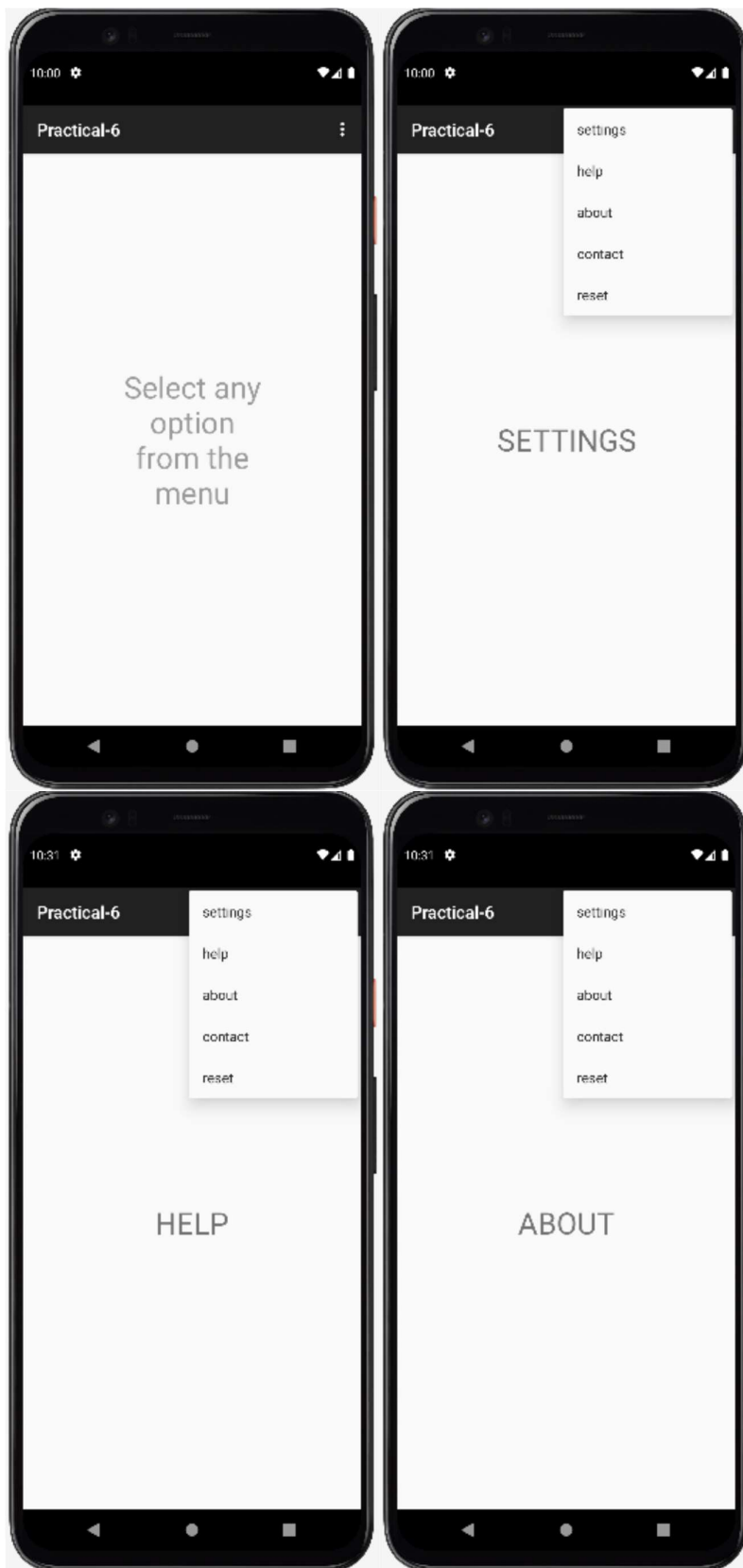
main_menu.xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto">
<item
android:icon="@drawable/ic_launcher_foreground"
android:id="@+id/Settings"
android:title="settings"/>
<item
android:icon="@drawable/ic_launcher_foreground"
app:showAsAction="never"
android:id="@+id/Help"
android:title="help"/>
<item
android:icon="@drawable/ic_launcher_foreground"
app:showAsAction="never"
android:id="@+id/about"
android:title="about"/>
<item
android:icon="@drawable/ic_launcher_foreground"
app:showAsAction="never"
android:id="@+id/contact"
android:title="contact"/>
<item
android:icon="@drawable/ic_launcher_foreground"
app:showAsAction="never"
android:id="@+id/reset"
android:title="reset"/>
</menu>
MainActivity.java
package com.practical_6;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    TextView et;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        et=(TextView)findViewById(R.id.editttext);
    }
    public boolean onCreateOptionsMenu(Menu menu)
    {
        MenuInflater inflater=getMenuInflater();
        inflater.inflate(R.menu.main_menu,menu);
    }
}

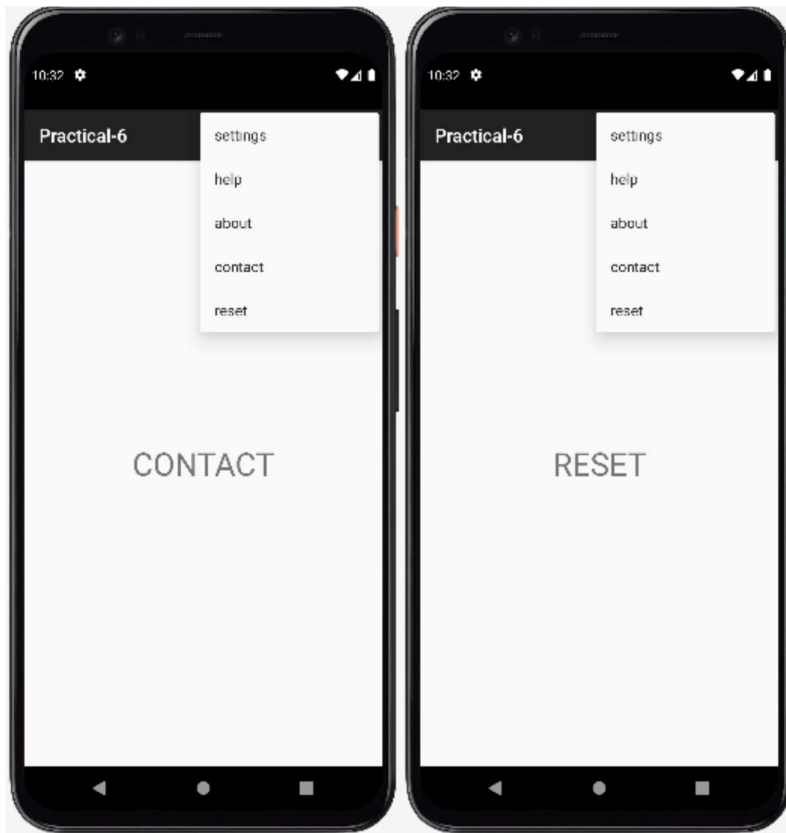
```



```
return true;
}
public boolean onOptionsItemSelected(MenuItem item)
{
    et.setText(item.getTitle().toString().toUpperCase());
    return super.onOptionsItemSelected(item);
}
}
```

**Output:**





### **Objective of Practical-7:**

**Create a radio button group with radio button of all courses in your college and on selecting a particular course, teacher-in- charge of that course should appear at the bottom of the screen.**

### **Code:**

#### **activity\_main.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">
<RadioGroup
android:id="@+id/rg"
android:layout_width="283dp"
android:layout_height="220dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"></RadioGroup>
</androidx.constraintlayout.widget.ConstraintLayout>
```

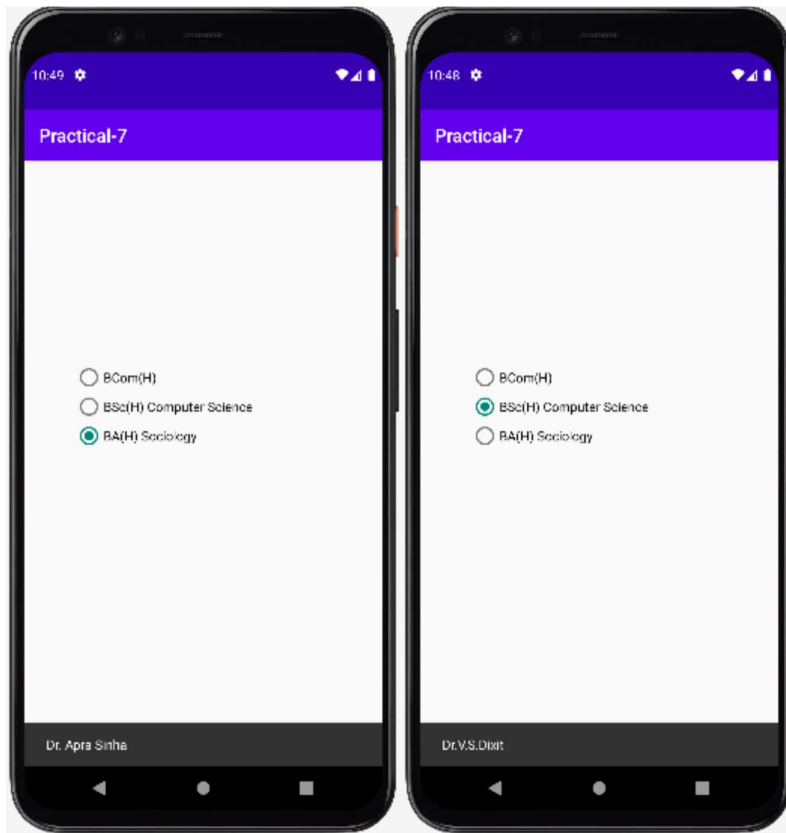
MainActivity.java

```

package com.practical_7;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import com.google.android.material.snackbar.Snackbar;
import java.util.HashMap;
public class MainActivity extends AppCompatActivity {
    private RadioGroup rg;
    private HashMap<String,String> hmap;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        initCourses();
    }
    public void initCourses()
    {
        rg=findViewById(R.id.rg);
        if(hmap == null)
        {
            hmap=new HashMap<>();
            hmap.put("BSc(H) Computer Science","Dr.V.S.Dixit");
            hmap.put("BCom(H)","Dr.Manika Jain");
            hmap.put("BA(H) Sociology","Dr. Apra Sinha");
            for(String name:hmap.keySet()){
                RadioButton rbutton=new RadioButton(MainActivity.this);
                rbutton.setText(name);
                rg.addView(rbutton);
            }
            rg.setOnCheckedChangeListener(new
                RadioGroup.OnCheckedChangeListener() {
                    @Override
                    public void onCheckedChanged(RadioGroup radioGroup, int i) {
                        int checkedid=rg.getCheckedRadioButtonId();
                        RadioButton rbutton=findViewById(checkedid);
                        Snackbar.make(rg,hmap.get(rbutton.getText().toString()),Snackbar
                            .LENGTH_SHORT).show()
                            ;
                    }
                });
        }
    }
}

```

**Output:**



### **Objective of Practical-8:**

**Create a list of all courses in your college and on selecting a particular course parent department and the teacher-in-charge of that department should appear at the bottom of the screen.**

### **Code:**

#### **activity\_main.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">
<Spinner
android:id="@+id/spinner"
android:layout_width="367dp"
android:layout_height="43dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
```

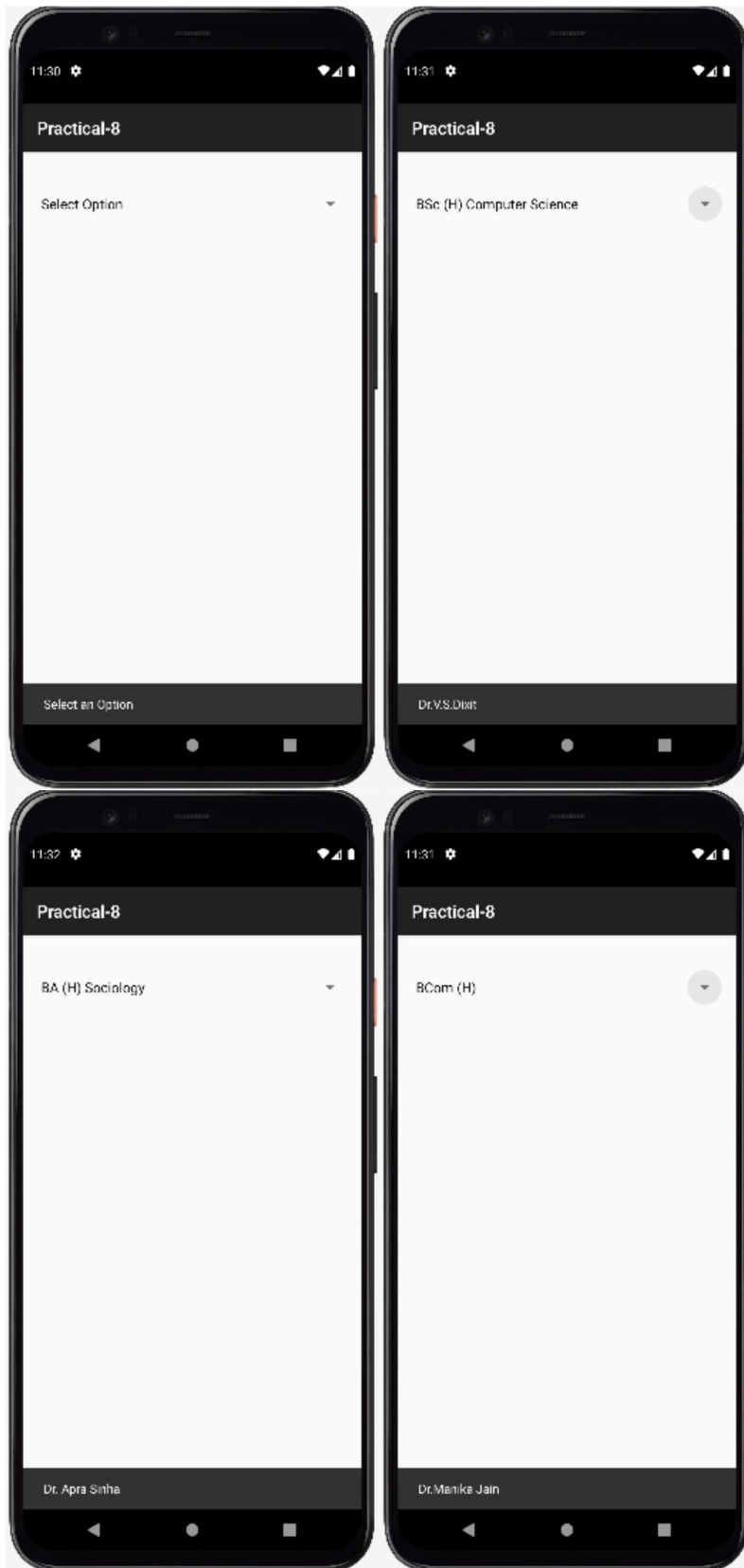
```

app:layout_constraintVertical_bias="0.063" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.practical_8;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import android.widget.Toast;
import com.google.android.material.snackbar.Snackbar;
public class MainActivity extends AppCompatActivity {
    Spinner sp;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        sp=(Spinner) findViewById(R.id.spinner);
        String courses[]={"Select Option","BSc (H) Computer
        Science","BCom (H)","BA
        (H) Sociology"};
        ArrayAdapter<String> arrayView=new
        ArrayAdapter<String>(getApplicationContext(),android.R.layout.simpl
        e_spinner_dropdown
        n_item,courses);
        sp.setAdapter(arrayView);
        sp.setOnItemClickListener(new
        AdapterView.OnItemClickListener(){
            @Override
            public void onItemClick(AdapterView<?> av, View view, int i,
            long l){
                switch (i){
                    case 1:
                        Snackbar.make(av,"Dr.V.S.Dixit",Snackbar.LENGTH_SHORT).show();
                        break;
                    case 2:
                        Snackbar.make(av,"Dr.Manika
                        Jain",Snackbar.LENGTH_SHORT).show();
                        break;
                    case 3:
                        Snackbar.make(av,"Dr. Apra
                        Sinha",Snackbar.LENGTH_SHORT).show();
                        break;
                    default:
                        Snackbar.make(av,"Select an
                        Option",Snackbar.LENGTH_SHORT).show();
                        break;
                }
            }
        });
    }
}

```

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

**Output:**



**Objective of Practical-9 a)**



**Create an application with three buttons (with different color names) vertically aligned, on selecting a button color of the screen will change.**

**Code:**

**activity\_main.xml**

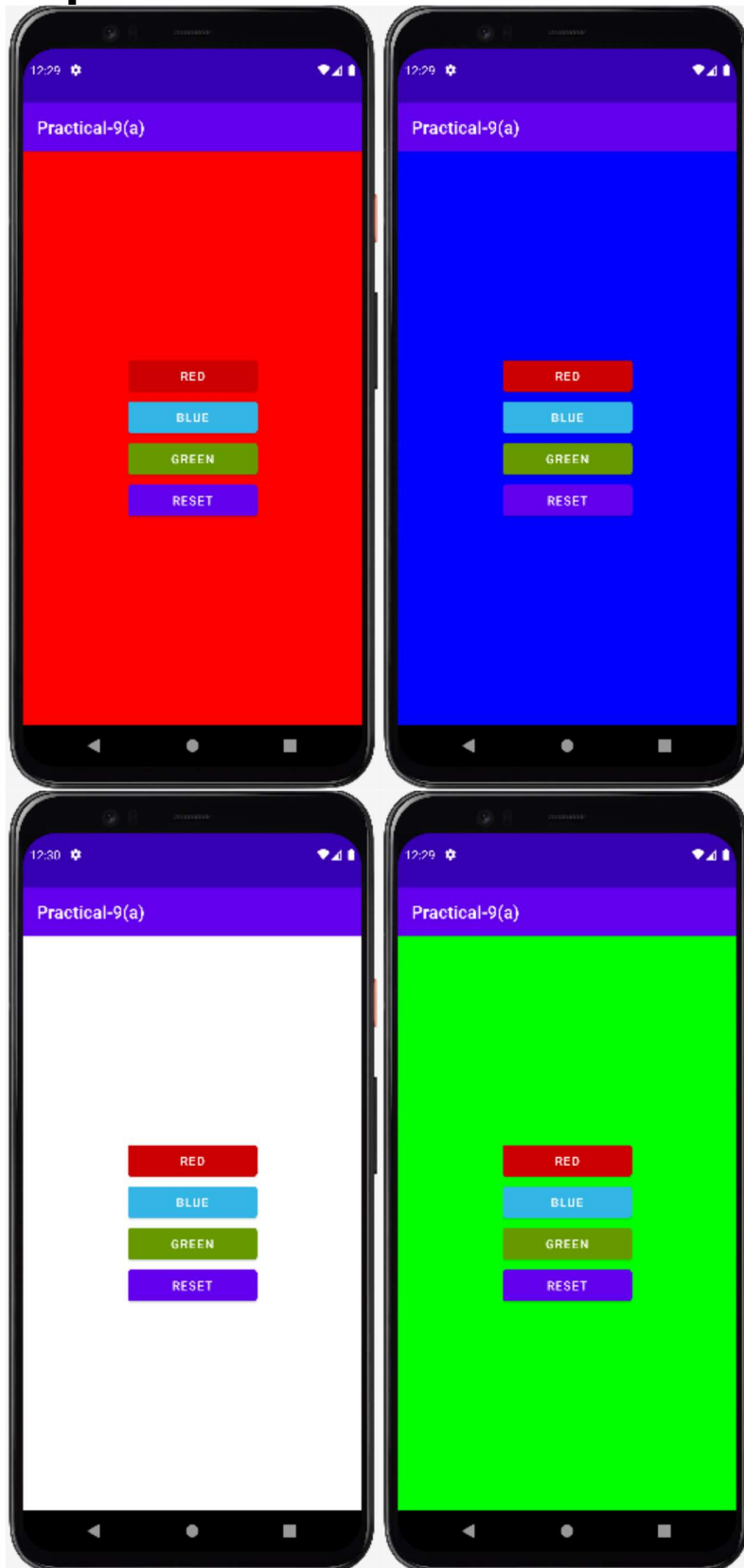
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:id="@+id/SuperParent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toBottomOf="parent">
        <Button
            android:layout_width="150dp"
            android:layout_height="wrap_content"
            android:id="@+id/btnRed"
            android:layout_gravity="center"
            android:backgroundTint="@android:color/holo_red_dark"
            android:text="RED"/>
        <Button
            android:layout_width="150dp"
            android:layout_height="wrap_content"
            android:id="@+id/btnBlue"
            android:layout_gravity="center"
            android:backgroundTint="@android:color/holo_blue_light"
            android:text="BLUE"/>
        <Button
            android:layout_width="150dp"
            android:layout_height="wrap_content"
            android:id="@+id/btnGreen"
            android:gravity="center"
            android:backgroundTint="@android:color/holo_green_dark"
            android:text="GREEN"/>
        <Button
            android:layout_width="150dp"
            android:layout_height="wrap_content"
            android:id="@+id/btnReset"
            android:gravity="center"
            android:text="Reset"/>
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

```

</LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.practical_9a;
import androidx.appcompat.app.AppCompatActivity;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import androidx.constraintlayout.widget.ConstraintLayout;
import android.widget.Button;
public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
    Button red,blue,green,reset;
    ConstraintLayout layoutSuperParent;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        layoutSuperParent=(ConstraintLayout)findViewById(R.id.SuperParen
t);
        red=findViewById(R.id.btnRed);
        blue=findViewById(R.id.btnBlue);
        green=findViewById(R.id.btnGreen);
        reset=findViewById(R.id.btnReset);
        red.setOnClickListener(this);
        blue.setOnClickListener(this);
        green.setOnClickListener(this);
        reset.setOnClickListener(this);
    }
    @Override
    public void onClick(View view)
    {
        int idd=view.getId();
        switch (idd){
            case R.id.btnRed:
                layoutSuperParent.setBackgroundColor(Color.RED);
                break;
            case R.id.btnBlue:
                layoutSuperParent.setBackgroundColor(Color.BLUE);
                break;
            case R.id.btnGreen:
                layoutSuperParent.setBackgroundColor(Color.GREEN);
                break;
            case R.id.btnReset:
                layoutSuperParent.setBackgroundColor(Color.WHITE);
                break;
        }
    }
}

```

## Output:



## Objective of Practical-9 b)

**Create an application with three buttons horizontally aligned, on selecting a button color of the screen will change.**

**Code:**

**activity\_main.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:id="@+id/SuperParent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toBottomOf="parent">
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/btnRed"
            android:layout_gravity="center"
            android:backgroundTint="@android:color/holo_red_dark"
            android:text="RED"/>
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/btnBlue"
            android:layout_gravity="center"
            android:backgroundTint="@android:color/holo_blue_light"
            android:text="BLUE"/>
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/btnGreen"
            android:gravity="center"
            android:backgroundTint="@android:color/holo_green_dark"
            android:text="GREEN"/>
        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/btnReset"
            android:gravity="center"
            android:text="Reset"/>
    </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

```

</LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.practical_9b;
import androidx.appcompat.app.AppCompatActivity;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import androidx.constraintlayout.widget.ConstraintLayout;
import android.widget.Button;
public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
    Button red,blue,green,reset;
    ConstraintLayout layoutSuperParent;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        layoutSuperParent=(ConstraintLayout)findViewById(R.id.SuperParen
t);
        red=findViewById(R.id.btnRed);
        blue=findViewById(R.id.btnBlue);
        green=findViewById(R.id.btnGreen);
        reset=findViewById(R.id.btnReset);
        red.setOnClickListener(this);
        blue.setOnClickListener(this);
        green.setOnClickListener(this);
        reset.setOnClickListener(this);
    }
    @Override
    public void onClick(View view)
    {
        int idd=view.getId();
        switch (idd){
            case R.id.btnRed:
                layoutSuperParent.setBackgroundColor(Color.RED);
                break;
            case R.id.btnBlue:
                layoutSuperParent.setBackgroundColor(Color.BLUE);
                break;
            case R.id.btnGreen:
                layoutSuperParent.setBackgroundColor(Color.GREEN);
                break;
            case R.id.btnReset:
                layoutSuperParent.setBackgroundColor(Color.WHITE);
                break;
        }
    }
}

```

## Output:



## Objective of Practical-10:

**Create a Login application (check username and password). On successful login, pop up the message. ("Welcome username")**

**Code:**

**activity\_main.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">
    <EditText
        android:id="@+id/etname"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Enter Your ID:"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.183" />
    <EditText
        android:id="@+id/etPassword"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Password"
        android:inputType="textPassword"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.325" />
    <Button
        android:id="@+id/btnLogin"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Login"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.474"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
```

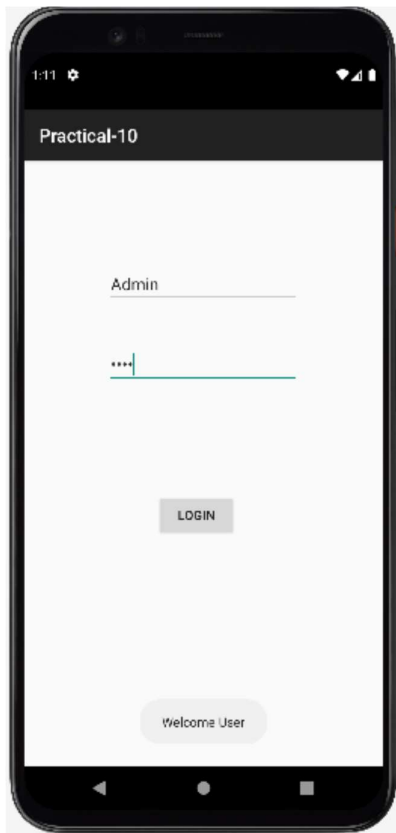
```

app:layout_constraintVertical_bias="0.592" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.practical_10;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
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 {
    private EditText Name;
    private EditText Password;
    private Button Login;
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Name= (EditText)findViewById(R.id.etname);
        Password = (EditText)findViewById(R.id.etPassword);
        Login = (Button) findViewById(R.id.btnLogin);
        Login.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                validate(Name.getText().toString(),Password.getText().toString())
            };
        });
    }
    private void validate(String userName, String userPassword){
        if((userName.equals("Admin")) && (userPassword.equals("1234"))){
            Toast.makeText(MainActivity.this,"Welcome User",
            Toast.LENGTH_SHORT).show();
        }
        else if( userName.isEmpty() || userPassword.isEmpty()) {
            Toast.makeText(MainActivity.this," Please enter all the details
            correctly", Toast.LENGTH_SHORT).show();
        }
        else{
            Toast.makeText(MainActivity.this," Not Valid Credentials",
            Toast.LENGTH_SHORT).show();
        }
    }
}

```

**Output:**





### **Objective of Practical-11:**

**Create a login application as above, on successful login redirect to another activity with logout button. On click of logout button a dialog appears with OK and CANCEL button. On OK button click go to login activity and on CANCEL stay at same activity.**

### **Code:**

#### **activity\_main.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">
    <EditText
        android:id="@+id/name"
        android:inputType="textPersonName"
        android:layout_width="120dp"
        android:layout_height="wrap_content"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintHorizontal_bias="0.85"
app:layout_constraintVertical_bias="0.3"/>
<EditText
    android:id="@+id/password"
    android:layout_width="130dp"
    android:layout_height="wrap_content"
    android:inputType="numberPassword"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.852"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.427" />
<TextView
    android:id="@+id/name_1"
    android:layout_width="wrap_content"
    android:text="USERNAME"
    android:textSize="25dp"
    android:layout_height="wrap_content"
    app:layout_constraintTop_toTopOf="parent"
    android:gravity="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintHorizontal_bias="0.2"
    app:layout_constraintVertical_bias="0.3"/>
<TextView
    android:id="@+id/password_1"
    android:layout_width="140dp"
    android:layout_height="wrap_content"
    android:text="PASSWORD"
    android:textSize="25dp"
    android:gravity="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.2"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.427" />
<Button
    android:id="@+id/login"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Login"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.693" />
```

```

</androidx.constraintlayout.widget.ConstraintLayout>
activity_main2.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=".MainActivity2">
<Button
android:id="@+id/logout"
android:layout_width="199dp"
android:layout_height="110dp"
android:text="LOGOUT"
android:textSize="20sp"
android:textStyle="bold"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.499" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.practical_11;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
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 {
private Button login;
private EditText name,password;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
login=(Button)findViewById(R.id.login);
name=(EditText)findViewById(R.id.name);
password=(EditText)findViewById(R.id.password);
login.setOnClickListener(new View.OnClickListener(){
@Override
public void onClick(View view)
{
if((name.getText().toString().toLowerCase().equals("pritam")) &&
(password.getText().toString().toLowerCase().equals("2506")))
{
Toast.makeText(MainActivity.this,"Logged

```

```

In", Toast.LENGTH_SHORT).show();
Intent i=new Intent(MainActivity.this,MainActivity2.class);
startActivity(i);
}
else{
Toast.makeText(MainActivity.this,"Enter Valid
Password", Toast.LENGTH_SHORT).show();
}
}
});
}
}
}

```

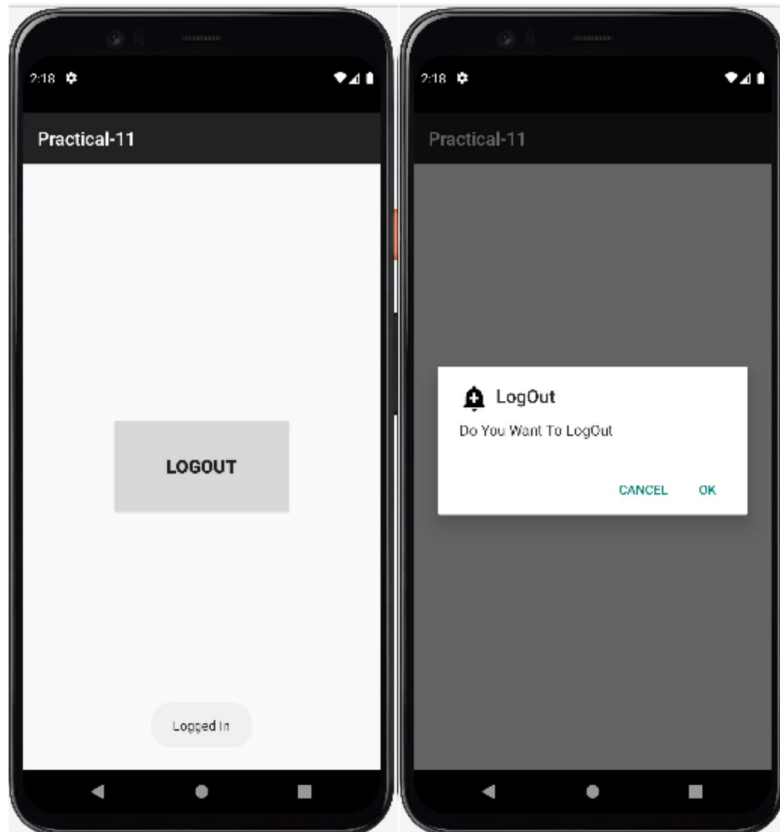
### **MainActivity2.java**

```

package com.practical_11;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity2 extends AppCompatActivity {
private Button logout;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main2);
logout=(Button)findViewById(R.id.logout);
logout.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
new
AlertDialog.Builder(MainActivity2.this).setTitle("LogOut").setMessage("Do You Want To LogOut").setPositiveButton("OK", (dialog,which)->logout()).setNegativeButton("CANCEL", null).setIcon(R.drawable.alert_icon).show();
}
});
}
public void logout()
{
super.finish();
}
}
}

```

### **Output:**



## Objective of Practical-12:

### Code:

#### activity\_main.java

```
<?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">
<TextView
android:id="@+id/textView"
android:layout_width="345dp"
android:layout_height="99dp"
android:layout_marginTop="36dp"
android:gravity="center"
android:hint="Enter Your Details"
android:textSize="30dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<EditText
android:id="@+id/name"
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:ems="10"
android:inputType="textPersonName"
android:hint="Name"
app:layout_constraintBottom_toTopOf="@+id/age"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView"
app:layout_constraintVertical_bias="0.635" />
<EditText
android:id="@+id/age"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:ems="10"
android:inputType="textPersonName"
android:hint="Age"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.37" />
<Button
android:id="@+id/insert"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="INSERT"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.604" />
<Button
android:id="@+id/update"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="UPDATE"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.715" />
<Button
android:id="@+id/delete"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="116dp"
android:text="DELETE"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
```

```

app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />
<EditText
    android:id="@+id/mobile"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:hint="Mobile No."
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.454" />
<Button
    android:id="@+id/view"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="40dp"
    android:text="View"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="1.0" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Dbhelper.java

```

package com.practical;
import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteOpenHelper;
import android.database.sqlite.SQLiteDatabase;
import androidx.annotation.Nullable;
public class DBhelper extends SQLiteOpenHelper{
    public DBhelper(@Nullable Context context)
    {
        super(context,"user09.db",null,1);
    }
    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("create table student(sid integer primary key
        autoincrement,name
        text,age text,mobile text)");
    }
    @Override
    public void onUpgrade(SQLiteDatabase db, int i, int i1) {
        db.execSQL("drop table if exists student");
    }
}

```

```

public Boolean insert_user_data(String name,String age,String
mobile)
{
    SQLiteDatabase db= this.getWritableDatabase();
    ContentValues contentValues=new ContentValues();
    contentValues.put("name",name);
    contentValues.put("age",age);
    contentValues.put("mobile",mobile);
    long result=db.insert("student",null,contentValues);
    if(result==-1){
        return false;
    }
    else {
        return true;
    }
}

public Boolean update_user_data(String name,String age,String
mobile)
{
    SQLiteDatabase db=this.getWritableDatabase();
    ContentValues contentValues=new ContentValues();
    contentValues.put("age",age);
    contentValues.put("mobile",mobile);
    Cursor cursor=db.rawQuery("select * from student where
name=?",new String[]
{name});
    if(cursor.getCount()>0)
    {
        long result=db.update("student",contentValues,"name=?",new
String[]
{name});
        if(result==-1)
        {
            return false;
        }
        else {
            return true;
        }
    }
    else{
        return false;
    }
}

public Boolean delete_user_data(String name)
{
    SQLiteDatabase db=this.getWritableDatabase();
    Cursor cursor=db.rawQuery("select * from student where
name=?",new String[]
{name});
    if(cursor.getCount()>0)

```



```

{
long result=db.delete("student","name=?",new String[]{name});
if(result!=-1)
{
return false;
}
else {
return true;
}
}
else{
return false;
}
}
public Cursor getdata()
{
SQLiteDatabase db = this.getWritableDatabase();
Cursor cursor=db.rawQuery("select * from student",null);
return cursor;
}
}

```

MainActivity.java

```

package com.practical;
import android.database.Cursor;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
Button insert,update,delete,view;
DBhelper db;
EditText name,age,mobile;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
name=findViewById(R.id.name);
age=findViewById(R.id.age);
mobile=findViewById(R.id.mobile);
update=findViewById(R.id.update);
insert=findViewById(R.id.insert);
delete=findViewById(R.id.delete);
view=findViewById(R.id.view);
db= new DBhelper(this);
insert.setOnClickListener(new View.OnClickListener(){

```

```

@Override
public void onClick(View view) {
String nameTXT=name.getText().toString();
String ageTXT=age.getText().toString();
String mobileTXT=mobile.getText().toString();
boolean
checkinsertdata=db.insert_user_data(nameTXT,ageTXT,mobileTXT);
if(checkinsertdata==true)
{
Toast.makeText(getApplicationContext(),"Data Inserted
Successfully",Toast.LENGTH_SHORT).show();
}
else {
Toast.makeText(getApplicationContext(),"Data Insertion was
Unsuccessful",Toast.LENGTH_SHORT).show();
}
}
});
update.setOnClickListener(new View.OnClickListener(){
@Override
public void onClick(View view) {
String nameTXT = name.getText().toString();
String ageTXT = age.getText().toString();String mobileTXT =
mobile.getText().toString();
boolean checkupdatedata =
db.update_user_data(nameTXT,ageTXT,mobileTXT);
if(checkupdatedata==true)
{
Toast.makeText(MainActivity.this,"Data Updation
Successfull",Toast.LENGTH_SHORT).show();
}
else {
Toast.makeText(MainActivity.this,"Data updation was
Unsuccessful",Toast.LENGTH_SHORT).show();
}
}
});
delete.setOnClickListener(new View.OnClickListener(){
@Override
public void onClick(View view) {
String nameTXT=name.getText().toString();
Boolean checkdeletedata=db.delete_user_data(nameTXT);
if(checkdeletedata==true)
{
Toast.makeText(getApplicationContext(),"Data Deletion
Successfull",Toast.LENGTH_SHORT).show();
}
else {
Toast.makeText(getApplicationContext(),"Data Deletion was
Unsuccessful",Toast.LENGTH_SHORT).show();
}
}
});

```

```

    }
    }
    });
    view.setOnClickListener(new View.OnClickListener(){
    @Override
    public void onClick(View view) {
    Cursor res = db.getdata();
    if(res.getCount()==0)
    {
    Toast.makeText(MainActivity.this,"No Record
    Found",Toast.LENGTH_SHORT).show();
    return;
    }
    StringBuffer buffer = new StringBuffer();
    while (res.moveToNext())
    {
    buffer.append("name: "+res.getString(1)+"\n");
    buffer.append("age: "+res.getString(2)+"\n");
    buffer.append("mobile: "+res.getString(3)+"\n");
    AlertDialog.Builder builder=new
    AlertDialog.Builder(MainActivity.this);
    builder.setCancelable(true);
    builder.setTitle("Application Entries");
    builder.setMessage(buffer.toString());
    builder.show();
    }
    }
    });
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
    MenuInflater inflater=getMenuInflater();
    inflater.inflate(R.menu.menu_main,menu);
    return true;
    }
    }

```

**Output:**

20:42



## Program\_12

### Enter Your Details

Ashutosh Kumar Pandey

19

9988776655

INSERT

UPDATE

DELETE

Data Inserted Successfully

VIEW



20:42



## Program\_12

### Enter Your Details

Ashutosh Kumar Pandey

19

9988776644

INSERT

UPDATE

DELETE

Data Updation Successfull

VIEW



20:43



## Program\_12

Enter Your Details

Prem Singh

### Application Entries

name: Ashutosh Kumar Pandey

age: 19

mobile: 9988776644

INSERT

UPDATE

DELETE

VIEW

