

NAME - HIMANI TANEJA

SUBJECT NAME - MOBILE

ROLLNO - 2023058/22

APPLICATION DEVELOPMENT

COURSE - BSc. IT

SUBJECT CODE - TBI 501

SECTION – “B”

DATE OF PRACTICAL – 30 AUGUST 2022

PROBLEM STATEMENT : Create an Android Application to print a simple text on screen.

OBJECTIVE: To print a Simple Text On Screen.

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">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.MyApplication"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>
```

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</manifest>

Colors.xml

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

<resources>

<color name="purple_200">#FFBB86FC</color>

<color name="purple_500">#FF6200EE</color>

<color name="purple_700">#FF3700B3</color>

<color name="teal_200">#FF03DAC5</color>

<color name="teal_700">#FF018786</color>

<color name="black">#FF000000</color>

<color name="white">#FFFFFFFF</color>

</resources>

Strings.xml

<resources>

<string name="app_name">My Application</string>

</resources>

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="wrap_content"

android:layout_height="wrap_content"

android:text="Himani Taneja"

android:textSize="50dp"

android:textColor="@color/black"

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```
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.example.myapplication;

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



Himani Taneja

NAME - HIMANI TANEJA

**SUBJECT NAME - MOBILE
APPLICATION DEVELOPMENT
SUBJECT CODE - TBI 501
SECTION – “B”**

ROLLNO - 2023058/22

COURSE - BSc. IT

DATE OF PRACTICAL – 30 AUGUST 2022

PROBLEM STATEMENT : Create an Android Application to change the background colour on button click.

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">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.MyApplication1"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

Colors.xml

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SECTION – “B”

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
</resources>
```

Strings.xml

```
<resources>
    <string name="app_name">My Application1</string>
</resources>
```

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:id="@+id/12"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    >

    <Button
        android:id="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="30dp"
        android:layout_marginLeft="164dp"
        android:layout_marginTop="800px"
        android:text="red"
        />

</RelativeLayout>
```

MainActivity.java

```
package com.example.myapplication1;

import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
```

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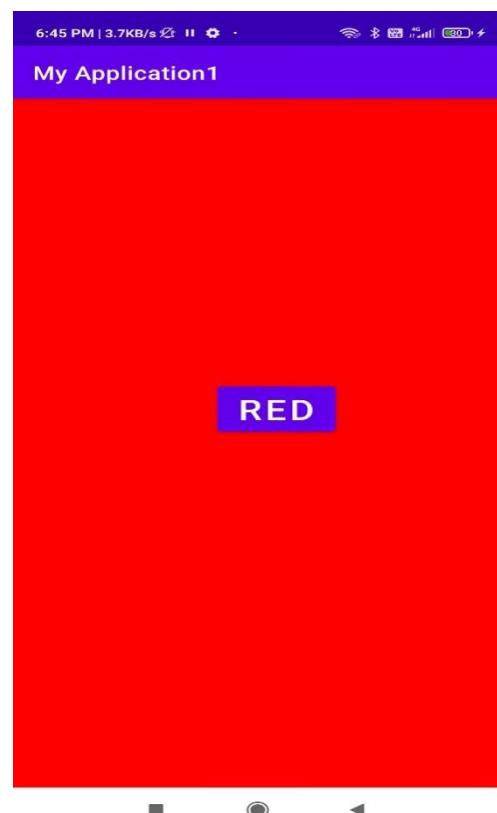
SECTION – “B”

```
import android.widget.RelativeLayout;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
public class MainActivity extends AppCompatActivity {  
    Button b1;  
    RelativeLayout l1;  
    protected void onCreate(Bundle savedInstanceState) {  
        b1 = findViewById(R.id.b1);  
        l1 = findViewById(R.id.l1);  
        b1.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View view) {  
                l1.setBackgroundColor(Color.RED);  
            }  
        });  
    }  
}
```

OUTPUT



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COURSE - BSc. IT

SECTION – “B”

DATE OF PRACTICAL-06 SEPTEMBER 2022

PROBLEM STATEMENT: Create A Android Application To Change The Background Color Of A Text Box With The Click Of The Button.

OBJECTIVE: Change The Background Color Of Text Box When Clicked On Button.

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">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Sa"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>
    </manifest>
```

Colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
```

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SECTION – “B”

```
<color name="white">#FFFFFF</color>
```

```
</resources>
```

Strings.xml

```
<resources>
```

```
<string name="app_name">sa</string>
```

```
</resources>
```

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:id="@+id/b1"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:text="red"
```

```
android:textSize="30dp"
```

```
android:layout_marginTop="150dp"
```

```
android:layout_marginLeft="160dp"
```

```
/>
```

```
<TextView
```

```
android:id="@+id/t1"
```

```
android:layout_width="200dp"
```

```
android:layout_height="200dp"
```

```
android:layout_marginTop="290dp"
```

```
android:layout_marginLeft="110dp"
```

```
/>
```

```
</RelativeLayout>
```

MainActivity.java

```
package com.example.sa;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.annotation.SuppressLint;
```

```
import android.graphics.Color;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.TextView;
```

```
public class MainActivity extends AppCompatActivity {
```

```
Button b2;
```

```
TextView t2;
```


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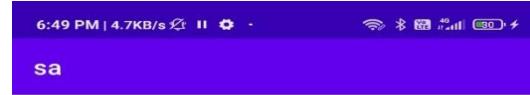
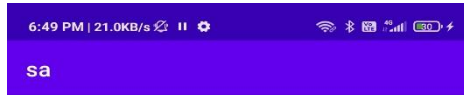
SUBJECT CODE - TBI 501

COURSE - BSc. IT

SECTION – “B”

```
@SuppressWarnings("MissingInflatedId")
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    b2=findViewById(R.id.b1);
    t2=findViewById(R.id.t1);
    b2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            t2.setBackgroundColor(Color.RED);
        }
    });
}
```

OUTPUT



RED

RED



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SUBJECT CODE - TBI 501

SECTION – “B”

DATE OF PRACTICAL- 06 SEPTEMBER 2022

PROBLEM STATEMENT: Create A Android Application To Show the Significance Of Activity Life Cycle.

OBJECTIVE: To See The Use Of Different Method Of Android Life Cycle.

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">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Activity"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>
    </manifest>
```

Colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
```

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SECTION – “B”

```
<color name="white">#FFFFFF</color>
<color name="green">#57EB0A</color>
</resources>
```

Strings.xml

```
<resources>
  <string name="app_name">activity</string>
</resources>
```

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"
    android:gravity="center">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        android:textSize="40dp"
    />

</RelativeLayout>
```

MainActivity.java

```
package com.example.activity;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Log.d("lifecycle","onCreate invoked");
    }
    @Override
    protected void onStart()
    {
        super.onStart();
        Log.d("lifecycle","onStart invoked");
    }
    @Override
    protected void onResume()
    {

```

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```
        super.onResume();
        Log.d("lifecycle","onResume invoked");
    }
    @Override
    protected void onPause()
    {
        super.onPause();
        Log.d("lifecycle","onPause invoked");
    }
    @Override
    protected void onStop()
    {
        super.onStop();
        Log.d("lifecycle","onStop invoked");
    }
    @Override
    protected void onRestart()
    {
        super.onRestart();
        Log.d("lifecycle","onRestart invoked");
    }
    @Override
    protected void onDestroy() {
        super.onDestroy();
        Log.d("lifecycle", "onDestroy invoked");
    }
}
```

OUTPUT

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SUBJECT NAME - MOBILE

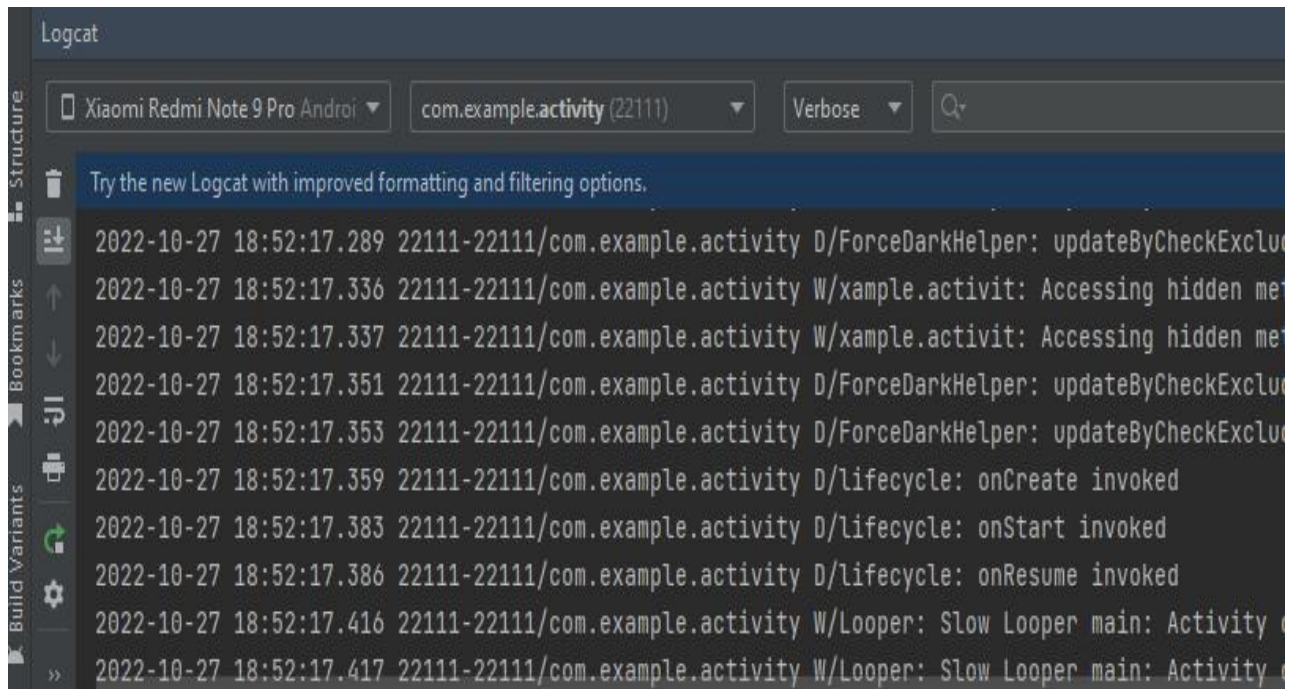
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COURSE - BSc. IT

SECTION – “B”

DATE OF PRACTICAL-13 SEPTEMBER 2022

PROBLEM STATEMENT: Create A Android Application To Sum of two numbers on Button Click.

OBJECTIVE: To sum of two number.

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">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Sam"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>
    </manifest>
```

Colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
```

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SECTION – “B”

```
<color name="white">#FFFFFF</color>
<color name="blue">#03A9F4</color>
<color name="green">#2EE60D</color>
<color name="red">#DA2416</color>
</resources>
```

Strings.xml

```
<resources>
  <string name="app_name">sam</string>
</resources>
```

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"
    android:background="@color/blue"
    >
    <EditText
        android:id="@+id/e1"
        android:layout_width="353dp"
        android:layout_height="60dp"
        android:layout_marginStart="30dp"
        android:layout_marginTop="30dp"
        android:backgroundTint="@color/black"
        android:textColor="@color/green"
        android:textSize="40dp"
        android:layout_marginEnd="30dp"
        android:layout_marginBottom="30dp"
        android:inputType="number"
        android:background="@color/white"
        />

    <EditText

        android:id="@+id/e2"
        android:layout_width="353dp"
        android:layout_height="60dp"
        android:layout_below="@id/e1"
        android:layout_alignParentStart="true"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="30dp"
        android:layout_marginTop="20dp"
        android:backgroundTint="@color/black"
        android:textColor="@color/green"
```

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COURSE - BSc. IT

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```
        android:textSize="40dp"
        android:layout_marginEnd="28dp"
        android:layout_marginBottom="20dp"
        android:background="@color/white"
        android:inputType="number"
    />
```

```
<TextView
    android:id="@+id/t1"
    android:layout_width="374dp"
    android:layout_height="64dp"
    android:layout_below="@id/e2"
    android:textColor="@color/red"
    android:textSize="50dp"
    android:layout_marginStart="20dp"
    android:layout_marginTop="62dp"
    android:layout_marginEnd="20dp"
    android:layout_marginBottom="20dp"
    android:background="#EC9999"
/>
```

```
<Button
    android:id="@+id/b1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="sum"
    android:textSize="40dp"
    android:layout_marginTop="390dp"
    android:layout_marginLeft="150dp"
/>
```

</RelativeLayout>

MainActivity.java

```
package com.example.sam;
```

```
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    Button bt1;
    TextView tv1;
    EditText et1,et2;
    @SuppressLint("MissingInflatedId")
    @Override
```



```

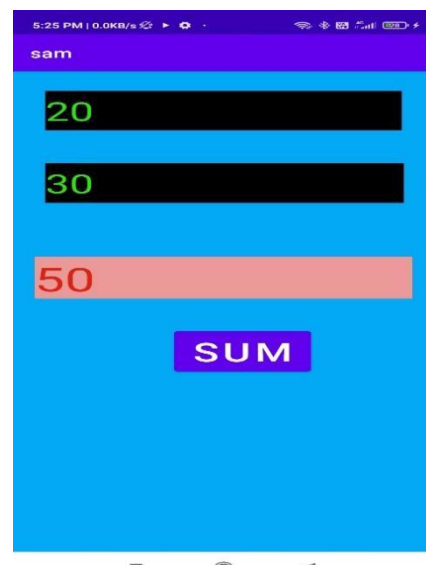
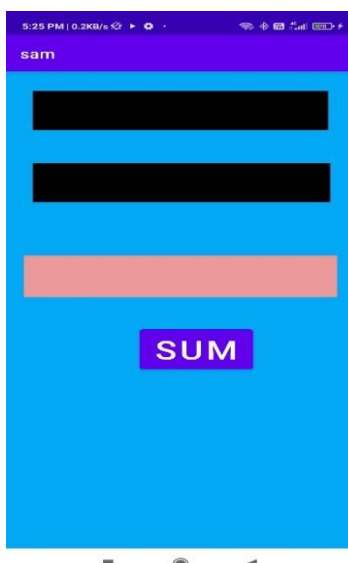
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    tv1=findViewById(R.id.t1);
    et1=findViewById(R.id.e1);
    et2=findViewById(R.id.e2);
    bt1=findViewById(R.id.b1);
    bt1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            int a,b,c;
            if((et1.getText().toString().length()==0))
            {
                et1.setText("0");
            }
            if((et2.getText().toString().length()==0))
            {
                et2.setText("0");
            }
            a=Integer.parseInt(et1.getText().toString());
            b=Integer.parseInt(et2.getText().toString());

            c=a+b;

            tv1.setText(String.valueOf(c));

        }
    });
}

```

OUTPUT

NAME - HIMANI TANEJA

SUBJECT NAME - MOBILE

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COURSE - BSc. IT

SECTION – “B”

DATE OF PRACTICAL-13 SEPTEMBER 2022

PROBLEM STATEMENT: Create A Simple Calculator.

OBJECTIVE: Create A calculator for basic calculation like Addition , Subtraction , Multiplication and Division.

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">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Calculator"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>
    </manifest>
```

Colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
```

NAME - HIMANI TANEJA

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APPLICATION DEVELOPMENT

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COURSE - BSc. IT

SECTION – “B”

```
<color name="black">#FF000000</color>
<color name="white">#FFFFFFF</color>
<color name="GREEN">#03F307</color>
<color name="YELLOW">#FAD107</color>
<color name="BLUE">#075EF3</color>
<color name="blue">#A669F5E0</color>
<color name="c">#2B6BEB</color>
<color name="purple">#8606BD</color>
</resources>
```

Strings.xml

```
<resources>
  <string name="app_name">calculator</string>
</resources>
```

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"
  android:background="@color/c"
  >

  <EditText
    android:id="@+id/e1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="30dp"
    android:layout_marginTop="30dp"

    android:layout_marginEnd="30dp"
    android:layout_marginBottom="30dp"
    android:inputType="number"
    android:outlineAmbientShadowColor="@color/GREEN"
    android:textSize="35dp"
    android:background="@color/white"
  />

  <EditText

    android:id="@+id/e2"
    android:layout_width="353dp"
    android:layout_height="wrap_content"
    android:layout_below="@id/e1"
```

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COURSE - BSc. IT

SECTION – “B”

```
android:layout_alignParentStart="true"
android:layout_alignParentEnd="true"
android:layout_marginStart="30dp"
android:layout_marginTop="20dp"
android:layout_marginEnd="28dp"
android:layout_marginBottom="20dp"
android:background="@color/white"
android:inputType="number"
android:outlineAmbientShadowColor="@color/black"
android:textSize="35dp" />
```

<TextView

```
android:id="@+id/t1"
android:layout_width="374dp"
android:layout_height="64dp"
android:layout_below="@id/e2"
```

```
android:layout_marginStart="20dp"
android:layout_marginTop="62dp"
android:layout_marginEnd="20dp"
android:layout_marginBottom="20dp"
android:background="#EC9999"
android:textColor="@color/GREEN"
android:textSize="35dp" />
```

<LinearLayout

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@+id/t1"
>
```

<Button

```
android:id="@+id/b1"
android:layout_width="wrap_content"
android:layout_height="66dp"
android:layout_margin="20dp"
android:backgroundTint="#B6271D"
android:text="ADD"
```

```
android:textSize="20dp" />
```

<Button

```
android:id="@+id/b2"
android:layout_width="wrap_content"
android:layout_height="62dp"
android:layout_margin="20dp"
android:backgroundTint="#B6271D"
```

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SECTION – “B”

```
android:text="sub"
```

```
android:textSize="20dp"
```

```
/>
```

```
<Button
```

```
android:id="@+id/b3"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="67dp"
```

```
android:layout_below="@id/t1"
```

```
android:layout_margin="20dp"
```

```
android:backgroundTint="#B6271D"
```

```
android:text="div"
```

```
android:textSize="20dp" />
```

```
</LinearLayout>
```

```
<Button
```

```
android:id="@+id/b4"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="67dp"
```

```
android:layout_alignParentStart="true"
```

```
android:layout_alignParentBottom="true"
```

```
android:layout_marginStart="47dp"
```

```
android:layout_marginTop="372dp"
```

```
android:layout_marginEnd="81dp"
```

```
android:layout_marginBottom="157dp"
```

```
android:layout_toStartOf="@+id/button"
```

```
android:backgroundTint="#B6271D"
```

```
android:text="mult"
```

```
android:textSize="20dp" />
```

```
<Button
```

```
android:id="@+id/button"
```

```
android:layout_width="99dp"
```

```
android:layout_height="63dp"
```

```
android:layout_alignParentEnd="true"
```

```
android:layout_alignParentBottom="true"
```

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COURSE - BSc. IT

SECTION – “B”

```
android:layout_marginEnd="74dp"
android:layout_marginBottom="163dp"
android:backgroundTint="#B6271D"
android:text="per"
android:textSize="25dp" />
```

</RelativeLayout>

MainActivity.java

```
package com.example.calculator;
import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    Button bt1, bt2, bt3, bt4, bt5;
    TextView tv1;
    EditText et1, et2;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        bt1=findViewById(R.id.b1);
        tv1=findViewById(R.id.t1);
        et1=findViewById(R.id.e1);
        et2=findViewById(R.id.e2);
        bt2=findViewById(R.id.b2);
        bt3=findViewById(R.id.b3);
        bt4=findViewById(R.id.b4);
        bt5=findViewById(R.id.button);

        bt1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int a,b,c;
                if((et1.getText().toString().length()==0)
                {
                    et1.setText("0");
                }
                if((et2.getText().toString().length()==0)
```

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SECTION – “B”

```
{
    et2.setText("0");
}

a=Integer.parseInt(et1.getText().toString());
b=Integer.parseInt(et2.getText().toString());

c=a+b;

tv1.setText(String.valueOf(c));

}
});
bt2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        int a,b,c;
        if((et1.getText().toString().length()==0)
        {
            et1.setText("0");
        }
        if((et2.getText().toString().length()==0)
        {
            et2.setText("0");
        }

        a=Integer.parseInt(et1.getText().toString());
        b=Integer.parseInt(et2.getText().toString());

        c=a-b;

        tv1.setText(String.valueOf(c));

    }
});
bt3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        float a,b,c;
        if((et1.getText().toString().length()==0)
        {
            et1.setText("0");
        }
        if((et2.getText().toString().length()==0)
        {
            et2.setText("0");
        }
    }
});
```

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COURSE - BSc. IT

SECTION – “B”

```
a=Integer.parseInt(et1.getText().toString());
b=Integer.parseInt(et2.getText().toString());

c=a/b;

tv1.setText(String.valueOf(c));

}
});
bt4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        int a,b,c;
        if((et1.getText().toString().length()==0)
        {
            et1.setText("0");
        }
        if((et2.getText().toString().length()==0)
        {
            et2.setText("0");
        }

        a=Integer.parseInt(et1.getText().toString());
        b=Integer.parseInt(et2.getText().toString());

        c=a*b;

        tv1.setText(String.valueOf(c));

    }
});
bt5.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        int a,b;
        float c;
        if((et1.getText().toString().length()==0)
        {
            et1.setText("0");
        }
        if((et2.getText().toString().length()==0)
        {
            et2.setText("0");
        }

        a=Integer.parseInt(et1.getText().toString());
        b=Integer.parseInt(et2.getText().toString());
```


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SECTION – “B”

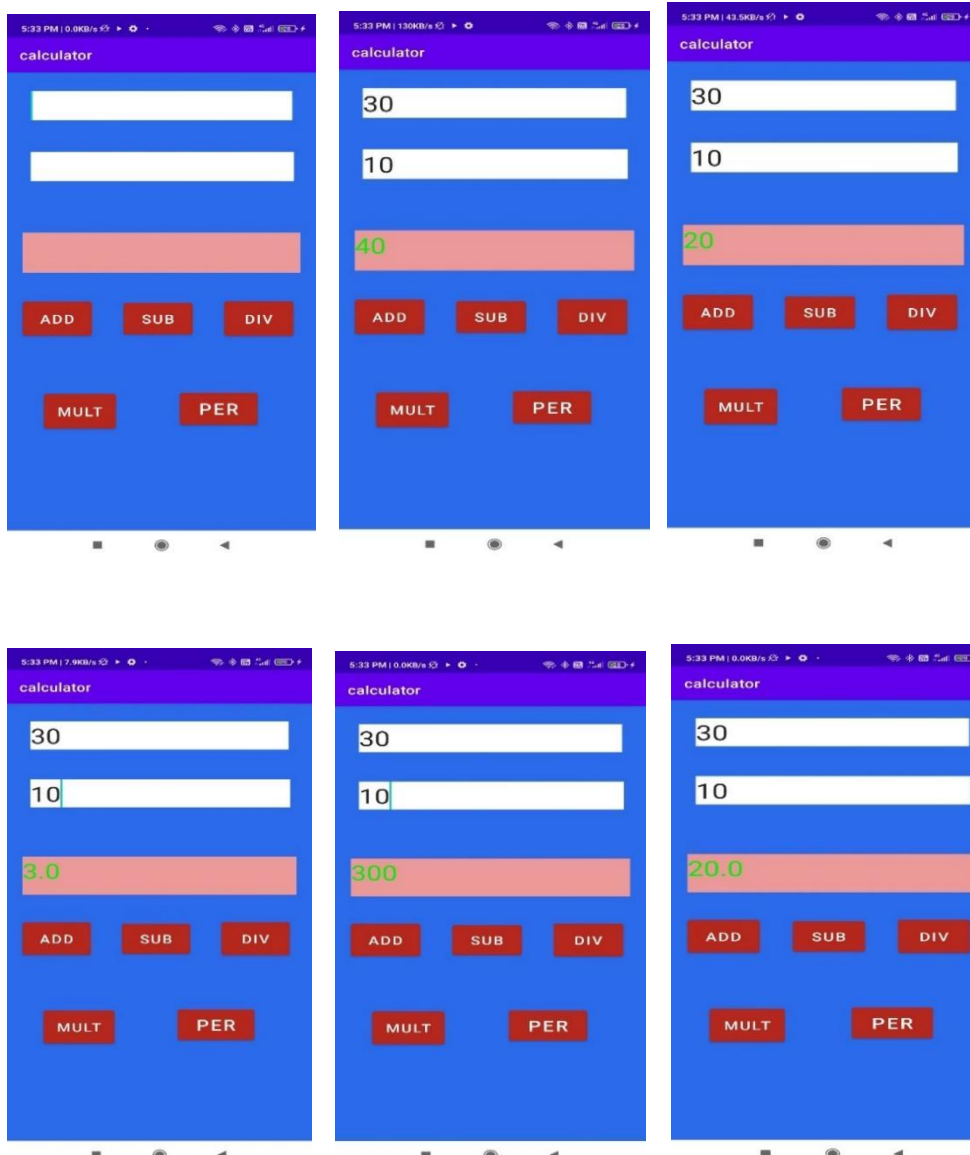
```
c=(a+b)/2;
```

```
tv1.setText(String.valueOf(c));
```

```
    }  
});
```

```
    }  
}
```

OUTPUT



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COURSE - BSc. IT

SECTION – “B”

DATE OF PRACTICAL-13 SEPTEMBER 2022

PROBLEM STATEMENT: Create An Android Application To Create A Simple Form .

OBJECTIVE: To Collect Basic data (Name , Age , Address , Phno) From User And After Collecting A Data Print A Toast message “Submitted” .

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">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Samplea"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

Colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
</resources>
```

Strings.xml

```
<resources>
```

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COURSE - BSc. IT

SECTION – “B”

```
<string name="app_name">samplea</string>
</resources>
```

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"

    >

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="47dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="307dp"
        android:layout_marginBottom="666dp"
        android:text="Name : "
        android:textSize="25dp"
        android:textStyle="bold"
        android:textColor="@color/black"
    />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="266dp"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="132dp"
        android:layout_marginTop="16dp"
        android:layout_marginEnd="13dp"
        android:ems="10"
        android:inputType="textPersonName" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="75dp"
        android:layout_height="46dp"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true"
        android:layout_alignParentBottom="true"
        android:layout_marginStart="24dp"
```

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SECTION – “B”

```
android:layout_marginTop="80dp"
android:layout_marginBottom="605dp"
android:text="Age : "
android:textColor="@color/black"
android:textSize="25dp"
android:textStyle="bold" />
```

```
<EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/editTextTextPersonName"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="38dp"
    android:layout_marginTop="14dp"
    android:layout_marginEnd="21dp"
    android:layout_marginBottom="611dp"
    android:layout_toEndOf="@+id/textView2"
    android:ems="10"
    android:inputType="number" />
```

```
<TextView
    android:id="@+id/textView3"
    android:layout_width="124dp"
    android:layout_height="45dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="274dp"
    android:layout_marginBottom="545dp"
    android:text="Address : "
    android:textColor="@color/black"
    android:textSize="25dp"
    android:textStyle="bold" />
```

```
<EditText
    android:id="@+id/editTextTextPersonName3"
    android:layout_width="240dp"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="21dp"
    android:layout_marginBottom="545dp"
    android:ems="10"
    android:inputType="textLongMessage"
    android:text="" />
```

```
<TextView
```

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SECTION – “B”

```
android:id="@+id/textView4"
android:layout_width="122dp"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginStart="16dp"
android:layout_marginEnd="273dp"
android:layout_marginBottom="489dp"
android:text="phone no : "
android:textColor="@color/black"
android:textSize="25dp"
android:textStyle="bold" />
```

```
<EditText
    android:id="@+id/editTextTextPersonName4"
    android:layout_width="237dp"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="17dp"
    android:layout_marginBottom="484dp"
    android:inputType="number"
/>
```

```
<Button
    android:id="@+id/b1"
    android:layout_width="105dp"
    android:layout_height="62dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="147dp"
    android:layout_marginBottom="326dp"
    android:text="Submit" />
```

</RelativeLayout>

MainActivity.java

```
package com.example.samplea;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.graphics.Color;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.Toast;
```

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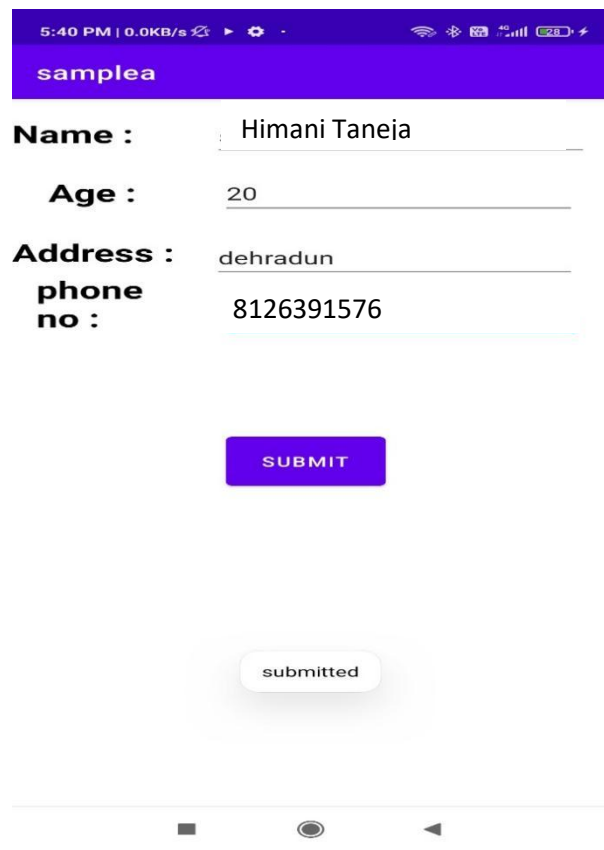
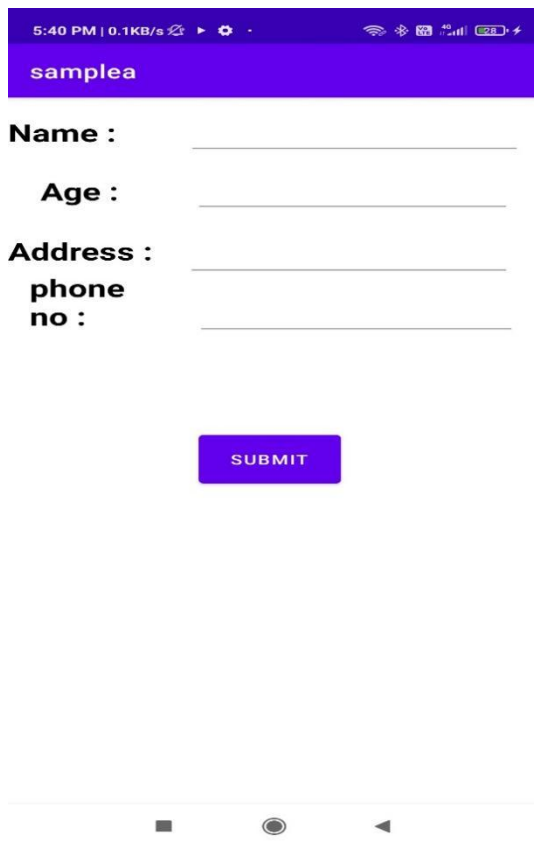
SECTION – “B”

```
public class MainActivity extends AppCompatActivity {
    Button b1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=findViewById(R.id.b1);

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                b1.setBackgroundColor(Color.RED);
                Toast.makeText(MainActivity.this,"submitted",Toast.LENGTH_LONG).show();
            }
        });
    }
}
```

OUTPUT



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COURSE - BSc. IT

SECTION – “B”

DATE OF PRACTICAL-20 SEPTEMBER 2022

PROBLEM STATEMENT: Create an Android Application to apply image on button to change the image on an Activity on Button Click.

OBJECTIVE: Change the image on the activity when we click on Button.

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">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Buttoning"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
        </application>
    </manifest>
```

Colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
```

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SECTION – “B”

```
<color name="black">#FF000000</color>
<color name="white">#FFFFFFF</color>
</resources>
```

Strings.xml

```
<resources>
  <string name="app_name">butting</string>
</resources>
```

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:id="@+id/b1"
    android:layout_width="84dp"
    android:layout_height="60dp"
    android:layout_alignParentBottom="true"

    android:layout_marginBottom="377dp"
    android:drawableTop="@drawable/ic_arrow"
  />

  <Button
    android:id="@+id/button"
    android:layout_width="76dp"
    android:layout_height="59dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="3dp"
    android:layout_marginBottom="378dp"
    android:drawableTop="@drawable/ic_baseline_arrow_back_24"
  />

  <ImageView
    android:id="@+id/iv1"
    android:layout_width="234dp"
    android:layout_height="269dp"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginEnd="75dp"
    android:layout_marginBottom="270dp"
  />
</RelativeLayout>
```

MainActivity.java

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COURSE - BSc. IT

SECTION – “B”

package com.example.buttoning;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;

```
public class MainActivity extends AppCompatActivity {  
    Button b1,b2;  
    ImageView iv1;  
    int a=0;
```

 @Override

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
    b1=findViewById(R.id.b1);  
    b2=findViewById(R.id.button);  
    iv1=findViewById(R.id.iv1);
```

```
    b1.setOnClickListener(new View.OnClickListener() {  
        @Override  
        public void onClick(View view) {
```

```
            if (a <= 4) { a++;  
                if (a == 1) {
```

```
                    iv1.setImageResource(R.drawable.gehu);  
                }
```

```
                if (a == 2) {  
                    iv1.setImageResource(R.drawable.gehu1);  
                }
```

```
                if (a == 3) {  
                    iv1.setImageResource(R.drawable.gehu2);  
                }
```

```
                if (a == 4) {  
                    iv1.setImageResource(R.drawable.gehu3);  
                }
```

```
                if (a == 5) {  
                    iv1.setImageResource(R.drawable.gehu4);  
                }
```

```
            }}
```

```
        });
```

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APPLICATION DEVELOPMENT

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SECTION – “B”

```
b2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (a >= 2) {a--;
            if (a == 1) {

                iv1.setImageResource(R.drawable.gehu);
            }
            if (a == 2) {
                iv1.setImageResource(R.drawable.gehu1);
            }
            if (a == 3) {
                iv1.setImageResource(R.drawable.gehu2);
            }
            if (a == 4) {
                iv1.setImageResource(R.drawable.gehu3);
            }
            if (a == 5) {
                iv1.setImageResource(R.drawable.gehu4);
            }
        }
    }
});
}
```

OUTPUT



NAME - HIMANI TANEJA

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SUBJECT CODE - TBI 501
SECTION – “B”**

ROLLNO - 2023058/22

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DATE OF PRACTICAL-20 SEPTEMBER 2022

PROBLEM STATEMENT: Create an application to show the use of the ListView And ArrayAdapter.

OBJECTIVE: We Create a two List name and RollNo and add data into them using ArrayAdapter.

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">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Lister"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

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SECTION – “B”

Colors.xml

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

<resources>

    <color name="purple_200">#FFBB86FC</color>

    <color name="purple_500">#FF6200EE</color>

    <color name="purple_700">#FF3700B3</color>

    <color name="teal_200">#FF03DAC5</color>

    <color name="teal_700">#FF018786</color>

    <color name="black">#FF000000</color>

    <color name="white">#FFFFFFFF</color>

</resources>
```

Strings.xml

```
<resources>

    <string name="app_name">lister</string>

</resources>
```

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="wrap_content"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Rollno "
        android:textSize="40dp"
        android:textColor="@color/black">
```

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/>

<TextView

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:layout_marginLeft="190dp"

android:text="Name "

android:textSize="40dp"

android:textColor="@color/black"

/>

<ListView

android:id="@+id/l2"

android:layout_width="223dp"

android:layout_height="681dp"

android:layout_alignParentEnd="true"

android:layout_marginTop="50dp"

android:layout_marginEnd="4dp"

/>

<ListView

android:id="@+id/l1"

android:layout_width="173dp"

android:layout_height="681dp"

android:layout_alignParentStart="true"

android:layout_marginTop="50dp"

/>

</RelativeLayout>

list1.xml

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

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

android:layout_width="match_parent"

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SECTION – “B”

```
android:layout_height="match_parent">
```

```
<TextView
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:textSize="100px"
```

```
    android:id="@+id/t1"
```

```
    android:textColor="@color/black"
```

```
<TextView
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:textSize="100px"
```

```
    android:id="@+id/t2"
```

```
    android:textColor="@color/black"
```

```
</LinearLayout>
```

MainActivity.java

```
package com.example.lister;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.widget.ArrayAdapter;
```

```
import android.widget.ListView;
```

```
import java.util.List;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    ListView l1,l2;
```

```
    @Override
```

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

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

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SECTION – “B”

```
l1=findViewById(R.id.l1);

l2=findViewById(R.id.l2);

String list[]={"sam","python","java"};

Integer lis[]={1,2,3};

ArrayAdapter<Integer> ad=new
ArrayAdapter<Integer>(MainActivity.this,R.layout.list1,R.id.t1,lis);

ArrayAdapter<String> sa=new
ArrayAdapter<String>(MainActivity.this,R.layout.list1,R.id.t2,list);

l1.setAdapter(ad);

l2.setAdapter(sa);}

}
```

OUTPUT



Rollno	Name
1	sam
2	python
3	java

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SECTION – “B”

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PROBLEM STATEMENT: Create an android application to take the four radio button of different color name and change the TextView color according to radio button name.

OBJECTIVE: Change The TextView color according to radio button name.

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">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Radiobutt"
        tools:targetApi="31">

        <activity
            android:name=".MainActivity"
            android:exported="true">

            <intent-filter>

                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />

            </intent-filter>

            <meta-data
                android:name="android.app.lib_name"
                android:value="" />

            </activity>
```


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COURSE - BSc. IT

SECTION – “B”

`</application>`

`</manifest>`

Colors.xml

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

`<resources>`

`<color name="purple_200">#FFBB86FC</color>`

`<color name="purple_500">#FF6200EE</color>`

`<color name="purple_700">#FF3700B3</color>`

`<color name="teal_200">#FF03DAC5</color>`

`<color name="teal_700">#FF018786</color>`

`<color name="black">#FF000000</color>`

`<color name="white">#FFFFFFFF</color>`

`<color name="red" >#F40202</color>`

`</resources>`

Strings.xml

`<resources>`

`<string name="app_name">radiobutt</string>`

`</resources>`

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"`

`>`

`<RadioGroup`

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SECTION – “B”

```
android:layout_height="wrap_content"
```

```
android:layout_width="wrap_content"
```

```
android:id="@+id/rg1"
```

```
>
```

```
<RadioButton
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:text="BLUE"
```

```
    android:textSize="30dp"
```

```
    android:id="@+id/r1"
```

```
    android:padding="20dp"/>
```

```
<RadioButton
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:text="GREEN"
```

```
    android:id="@+id/r2"
```

```
    android:textSize="30dp"
```

```
    android:padding="20dp"/>
```

```
<RadioButton
```

```
    android:layout_width="wrap_content"
```

```
    android:layout_height="wrap_content"
```

```
    android:text="RED"
```

```
    android:id="@+id/r3"
```

```
    android:textSize="30dp"
```

```
    android:padding="20dp"/>
```

```
<RadioButton
```

```
    android:layout_width="wrap_content"
```

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```
        android:layout_height="wrap_content"

        android:text="YELLOW"

        android:textSize="30dp"

        android:id="@+id/r4"

        android:padding="20dp"/>

</RadioGroup>

<TextView

    android:id="@+id/t1"

    android:layout_width="272dp"

    android:layout_height="149dp"

    android:layout_alignParentStart="true"

    android:layout_alignParentEnd="true"

    android:layout_alignParentBottom="true"

    android:layout_marginStart="73dp"

    android:layout_marginEnd="66dp"

    android:layout_marginBottom="127dp"

    android:background="@color/black"

/>

</RelativeLayout>
```

MainActivity.java

```
package com.example.radiobutt;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Color;

import android.os.Bundle;

import android.view.View;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
```

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SECTION – “B”

RadioGroup rg;

TextView t1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

rg=findViewById(R.id.rg1);

rg.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {

@Override

public void onCheckedChanged(RadioGroup radioGroup, int i) {

switch(i)

{

case R.id.r1:

{

t1=findViewById(R.id.t1);

t1.setBackgroundColor(Color.BLUE);

break;

}

case R.id.r2:

{

t1=findViewById(R.id.t1);

t1.setBackgroundColor(Color.GREEN);

break;

}

case R.id.r3:

{

t1=findViewById(R.id.t1);

t1.setBackgroundColor(Color.RED);

break;

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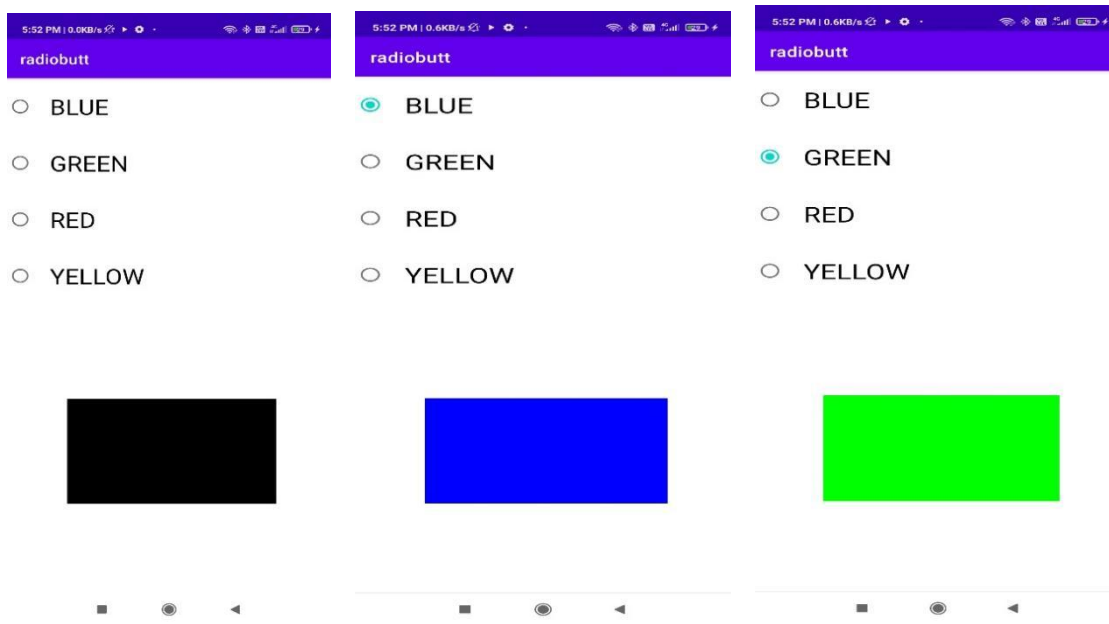
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SECTION – “B”

```
}  
case R.id.r4:  
{  
    t1=findViewById(R.id.t1);  
    t1.setBackgroundColor(Color.YELLOW);  
    break;  
}  
default:  
{  
    break;  
}  
}  
}  
});  
}
```

OUTPUT



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SECTION – “B”

DATE OF PRACTICAL-27 SEPTEMBER 2022

PROBLEM STATEMENT: Create an android Application to Change the image on an Activity on button click.

OBJECTIVE: Change the Image on the activity when we click on Button.

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"
    package="com.example.imgehsg">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Imgehsg"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

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SECTION – “B”

Colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
    <color name="RED">#E01203</color>
</resources>
```

Strings.xml

```
<resources>
    <string name="app_name">imgehsg</string>
</resources>
```

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

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SECTION – “B”

```
android:layout_height="wrap_content"
android:layout_marginTop="36dp"
android:layout_marginLeft="150dp"
android:backgroundTint="@color/RED"
android:text="NEXT"
android:textSize="30dp" />
```

<ImageView

```
android:id="@+id/imageView"
android:layout_width="364dp"
android:layout_height="371dp"
android:layout_below="@+id/b1"
android:layout_alignParentStart="true"
android:layout_alignParentEnd="true"
android:layout_marginStart="21dp"
android:layout_marginTop="77dp"
android:layout_marginEnd="26dp"
/>
```

<Button

```
android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_below="@+id/imageView"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"

android:layout_marginTop="75dp"
android:layout_marginEnd="131dp"
android:layout_marginBottom="58dp"
android:text="Previous"
```


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SECTION – “B”

```
        android:textSize="20dp"
```

```
    />
```

```
</RelativeLayout>
```

MainActivity.java

```
package com.example.imgehsg;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.ImageView;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    Button b1,b2;
```

```
    ImageView iv1;
```

```
    int a=0;
```

```
    @Override
```

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

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        b1=findViewById(R.id.b1);
```

```
        b2=findViewById(R.id.button);
```

```
        iv1=findViewById(R.id.imageView);
```

```
        b1.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

```
            public void onClick(View view) {
```

```
                if (a <= 4) { a++;
```

```
                    if (a == 1) {
```

```
                        iv1.setImageResource(R.drawable.gehu);
```

```
                    }
```

```
                    if (a == 2) {
```

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SECTION – “B”

```
        iv1.setImageResource(R.drawable.gehu1);
    }
    if (a == 3) {
        iv1.setImageResource(R.drawable.gehu2);
    }
    if (a == 4) {
        iv1.setImageResource(R.drawable.gehu3);
    }
    if (a == 5) {
        iv1.setImageResource(R.drawable.gehu4);
    }
    }
    }
    });

b2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (a >= 2) {a--;
            if (a == 1) {
                iv1.setImageResource(R.drawable.gehu);
            }
            if (a == 2) {
                iv1.setImageResource(R.drawable.gehu1);
            }
            if (a == 3) {
                iv1.setImageResource(R.drawable.gehu2);
            }
        }
```

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SECTION – “B”

```
if (a == 4) {  
    iv1.setImageResource(R.drawable.gehu3);  
}  
if (a == 5) {  
    iv1.setImageResource(R.drawable.gehu4);  
}  
}  
}  
});  
}
```

OUTPUT



NEXT



NEXT



PREVIOUS

PREVIOUS

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SECTION – “B”

DATE OF PRACTICAL-27 SEPTEMBER 2022

PROBLEM STATEMENT: Create an android application to implement ToggleButton having two values on and off and insert submit button when user submit the button then the toast will notify us either ToggleButton is ON or OFF.

OBJECTIVE: To Genrate different toast message when click on submit button.

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">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Toggle"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
        </activity>
    </application>
</manifest>
```

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</activity>

</application>

</manifest>

Colors.xml

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

<resources>

<color name="purple_200">#FFBB86FC</color>

<color name="purple_500">#FF6200EE</color>

<color name="purple_700">#FF3700B3</color>

<color name="teal_200">#FF03DAC5</color>

<color name="teal_700">#FF018786</color>

<color name="black">#FF000000</color>

<color name="white">#FFFFFFFF</color>

<color name="green">#22BB85</color>

</resources>

Strings.xml

<resources>

<string name="app_name">toggle</string>

</resources>

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"

android:background="@color/green"

>

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```
<ToggleButton
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/tg1"
    android:layout_marginTop="200dp"
    android:layout_marginLeft="150dp"
/>
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_marginTop="300dp"
    android:text="submit"
    android:id="@+id/b1"
    android:layout_marginLeft="150dp"
/>
```

```
</RelativeLayout>
```

MainActivity.java

```
package com.example.toggle;

import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
import android.widget.ToggleButton;

public class MainActivity extends AppCompatActivity {
    Button b1;
```

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ToggleButton tg;

@SuppressWarnings("MissingInflatedId")

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

tg=findViewById(R.id.toggle1);

b1=findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String res;

res=tg.getText().toString();

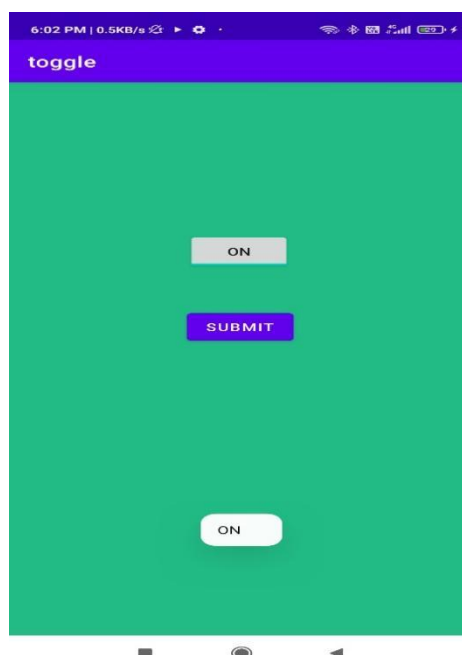
Toast.makeText(MainActivity.this,res,Toast.LENGTH_LONG).show();

}

});}

}

OUTPUT



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DATE OF PRACTICAL-04 OCTOBER 2022

PROBLEM STATEMENT: Create an android application to implement AutoCompleteTextView.

OBJECTIVE: To learn how to use AutoCompleteTextView .

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">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.New"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
            <meta-data
                android:name="android.app.lib_name"
                android:value="" />
            </activity>
```


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</application>

</manifest>

Colors.xml

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

<resources>

<color name="purple_200">#FFBB86FC</color>

<color name="purple_500">#FF6200EE</color>

<color name="purple_700">#FF3700B3</color>

<color name="teal_200">#FF03DAC5</color>

<color name="teal_700">#FF018786</color>

<color name="black">#FF000000</color>

<color name="white">#FFFFFFFF</color>

</resources>

Strings.xml

<resources>

<string name="app_name">new</string>

</resources>

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">

<AutoCompleteTextView

android:layout_width="100dp"

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```
        android:layout_height="50dp"

        android:textSize="30dp"

        android:layout_marginTop="70dp"

        android:layout_marginLeft="40dp"

        android:id="@+id/a1"

        android:outlineAmbientShadowColor="@color/black"

    />
```

</RelativeLayout>

MainActivity.java

```
package com.example.anew;

import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.widget.AdapterView;
import android.widget.AutoCompleteTextView;

public class MainActivity extends AppCompatActivity {

    String lang[]={"c","c++","java","net","iphone"};

    AutoCompleteTextView act;

    @SuppressWarnings("MissingInflatedId")

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        act=findViewById(R.id.a1);

        ArrayAdapter<String> ad=new
        ArrayAdapter<String>(MainActivity.this,android.R.layout.select_dialog_item,lang);

        act.setThreshold(2);

        act.setAdapter(ad);

    }

}
```

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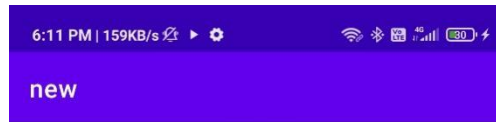
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