2.Devise a mobile App to showcase graphics on button states and add a widge at run time. Step-1:Create xml file inside drawable folder(File name-change) change.xml:-<?xml version="1.0" encoding="utf-8"?> <selector xmlns:android="http://schemas.android.com/apk/res/android"> <item android:state enabled="false" android:drawable="@drawable/button disabled" /> <item android:state\_pressed="true" android:drawable="@drawable/button pressed" /> <item android:drawable="@drawable/button default" /> </selector> 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:id="@+id/cl" android:layout width="match parent" android:layout height="match parent" tools:context=".MainActivity"> < Image Button android:id="@+id/imageButton" android:layout width="224dp" android:layout height="147dp" android:background="@drawable/change" app:layout constraintBottom toBottomOf="parent" app:layout constraintEnd toEndOf="parent" app:layout constraintHorizontal bias="0.108" app:layout constraintStart toStartOf="parent" app:layout constraintTop toTopOf="parent" app:layout\_constraintVertical bias="0.909" /> <Switch android:id="@+id/switch1" android:layout width="wrap content" android:layout height="wrap content" android:text="Switch" app:layout constraintBottom toBottomOf="parent" app:layout constraintEnd toEndOf="parent" app:layout constraintHorizontal bias="0.829" app:layout constraintStart toStartOf="parent" app:layout constraintTop toTopOf="parent" app:layout constraintVertical bias="0.836" />

</androidx.constraintlayout.widget.ConstraintLayout>

```
MainActivity.class:-
package com.durgesh.program 2;
import androidx.appcompat.app.AppCompatActivity;
import androidx.constraintlayout.widget.ConstraintLayout;
import android.os.Bundle;
import android.view.View;
import android.widget.CompoundButton;
import android.widget.DatePicker;
import android.widget.ImageButton;
import android.widget.Switch;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  private ImageButton btn;
  private Switch aSwitch;
  private ConstraintLayout cl;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    btn=findViewById(R.id.imageButton);
    aSwitch=findViewById(R.id.switch1);
    cl=findViewById(R.id.cl);
    DatePicker d=new DatePicker(this);
    cl.addView(d);
    aSwitch.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
       @Override
       public void onCheckedChanged(CompoundButton compoundButton, boolean b) {
         if(b)
         {
            btn.setEnabled(true);
         }
         else
            btn.setEnabled(false);
       }
    });
    btn.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         Toast.makeText(MainActivity.this, "Click Button", Toast.LENGTH SHORT).show();
    });
  }
}
```



