Ex2 - Application to simulate keyboard and calculator

Name: Suria Prakash J

Reg No: 185001178

Calculator:

MainActivity.java

```
protected void onCreate(Bundle savedInstanceState) {
         super.onCreate(savedInstanceState);
       button1 = (Button) findViewById(R.id.button1);

button2 = (Button) findViewById(R.id.button2);

button3 = (Button) findViewById(R.id.button3);

button4 = (Button) findViewById(R.id.button4);

button5 = (Button) findViewById(R.id.button5);
                 public void onClick(View v) {
```

```
button3.setOnClickListener(new View.OnClickListener() {
button4.setOnClickListener(new View.OnClickListener() {
button6.setOnClickListener(new View.OnClickListener(){
button7.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
        ResultEditText.setText(ResultEditText.getText() + "7");
button8.setOnClickListener(new View.OnClickListener(){
    public void onClick(View v) {
button0.setOnClickListener(new View.OnClickListener() {
```

```
ResultEditText.setText(null);
buttonSub.setOnClickListener(new View.OnClickListener() {
```

activity_main.xml

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

    <android.support.v7.widget.GridLayout
        android:layout_width="394dp"
        android:layout_height="255dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="1"
            app:layout_column="0"
            app:layout_row="0" />

            <Button
            android:id="@+id/button3"</pre>
```

```
android:text="2"
    app:layout_column="1"
    app:layout_row="0" />

</android.support.v7.widget.GridLayout>

<EditText
    android:id="@+id/edt1"
    android:layout_width="305dp"
    android:layout_height="56dp"
    android:ems="10"
    android:ems="10"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.127" />

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

OUTPUT:



2) Keyboard

MainActivity.java

```
super.onCreate(savedInstanceState);
AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE NIGHT NO);
        TableLayout table= findViewById(R.id.table);
        TextView type here= findViewById(R.id.type here);
        type here.setShowSoftInputOnFocus(false);
        type here.setCursorVisible(false);
        type here.setOnClickListener(new View.OnClickListener() {
        type here.setOnFocusChangeListener(new View.OnFocusChangeListener()
```

```
txt+=t.getText().toString();
        String txt=type here.getText().toString();
u.setOnClickListener(new View.OnClickListener() {
        String txt=type here.getText().toString();
        txt+=u.getText().toString();
```

```
Button s= findViewById(R.id.s);
s.setOnClickListener(new View.OnClickListener() {
   public void onClick(View v) {
        txt+=s.getText().toString();
d.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
        String txt=type here.getText().toString();
        txt+=d.getText().toString();
```

```
String txt=type here.getText().toString();
        txt+=f.getText().toString();
k.setOnClickListener(new View.OnClickListener() {
        type here.setText(txt);
1.setOnClickListener(new View.OnClickListener() {
        txt+=l.getText().toString();
        String txt=type here.getText().toString();
```

```
txt+=z.getText().toString();
        txt+=x.getText().toString();
   public void onClick(View v) {
Button n= findViewById(R.id.n);
    public void onClick(View v) {
m.setOnClickListener(new View.OnClickListener() {
        String txt=type here.getText().toString();
        txt+=m.getText().toString();
```

```
Button enter= findViewById(R.id.enter);
Button clr= findViewById(R.id.clr);
clr.setOnClickListener(new View.OnClickListener() {
   public void onClick(View v) {
```

```
g.setText("g");
h.setText("h");
d.setText("D");
f.setText("F");
```

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

```
}
});
}
```

activity_main.xml

```
<TableLayout
```

```
android:text="q"
android:textAllCaps="false"
android:textColor="@color/white"
```

```
android:textAllCaps="false"
android:textColor="@color/white"
```

```
android:layout width="wrap content
</TableRow>
```

```
</TableLayout>
<EditText
```

</androidx.constraintlayout.widget.ConstraintLayout>

OUTPUT:

