

Name : Rajkumar B L

Reg.No : 2047120

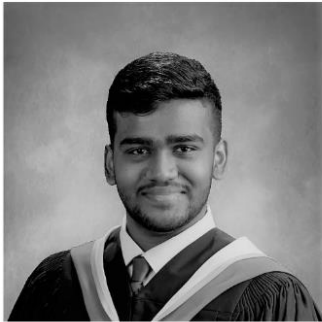
Course : MCS 272 Mobile Application (Lab 01)

## Output:

### 1. Welcome Screen



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# WELCOME

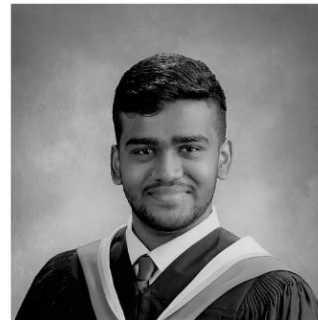
TOAST

COUNT

### 2. Toast button clicked.



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# WELCOME

The current count is 0

TOAST

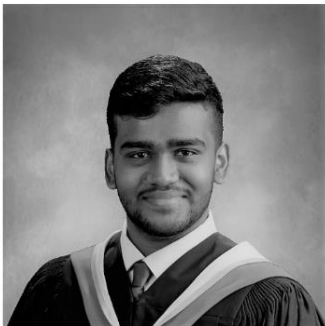
COUNT

Note: The color of the count changes for every onclick performed on the count button. It is achieved by generating different RGB integer values using Random.

3. Count button clicked.



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TOAST

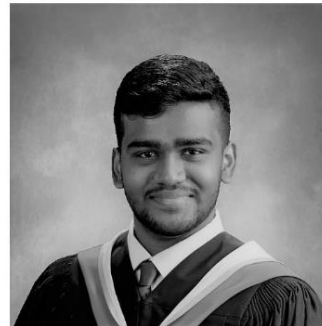
COUNT



4.Count button clicked (6<sup>th</sup> time).



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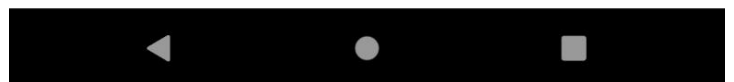
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TOAST

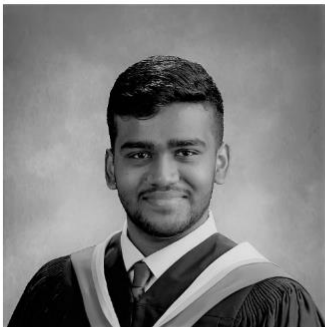
COUNT



5.Count button clicked (19<sup>th</sup> time).



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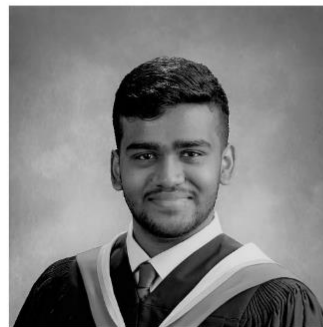
TOAST

COUNT

6. Toast button clicked.



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19

The current count is 19

TOAST

COUNT

The code used in the Main Activity and XML layout is attached below for reference.

```
1 package com.example.hellotoast;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5 import android.graphics.Color;
6 import android.os.Bundle;
7 import android.view.Gravity;
8 import android.view.View;
9 import android.widget.TextView;
10 import android.widget.Toast;
11
12 import java.util.Random;
13
14 public class MainActivity extends AppCompatActivity {
15
16     private int count=0;
17     private TextView disp;
18     @Override
19     protected void onCreate(Bundle savedInstanceState) {
20         super.onCreate(savedInstanceState);
21         setContentView(R.layout.activity_main);
22         disp = (TextView) findViewById(R.id.display);
23     }
24     public void showToast(View view) {
25         TextView text;
26         Toast toast = Toast.makeText(this, "The current
count is "+Integer.toString(count), Toast.LENGTH_SHORT);
27         view = toast.getView();
28         text = (TextView) view.findViewById(android.R.id.
message);
29         text.setTextColor(getResources().getColor(R.color.
black));
30         text.setTextSize(18);
31         view.setBackgroundColor(Color.parseColor("#f2ccff"
));
32         toast.setGravity(Gravity.CENTER, 0, 500);
33         toast.show();
34     }
35
36     public void counter(View v) {
37         count++;
38         if (disp != null) {
39             Random rnd = new Random();
40             disp.setTextSize(150);
41             int color = Color.rgb(rnd.nextInt(256), rnd.
nextInt(256), rnd.nextInt(256));
```

```
42         disp.setTextColor(color);
43         disp.setText(Integer.toString(count));
44     }
45 }
46 }
```

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:
  android="http://schemas.android.com/apk/res/android"
3   xmlns:app="http://schemas.android.com/apk/res-auto"
4   xmlns:tools="http://schemas.android.com/tools"
5   android:layout_width="match_parent"
6   android:layout_height="match_parent"
7   android:background="#ffffff"
8   tools:context=".MainActivity">
9
10  <TextView
11      android:id="@+id/textView3"
12      android:layout_width="167dp"
13      android:layout_height="31dp"
14      android:layout_marginTop="36dp"
15      android:fontFamily="sans-serif"
16      android:text="Rajkumar B L"
17      android:textColor="#000000"
18      android:textSize="24sp"
19      app:layout_constraintEnd_toEndOf="parent"
20      app:layout_constraintHorizontal_bias="0.515"
21      app:layout_constraintStart_toEndOf="@+id/imageView"
22      app:layout_constraintTop_toBottomOf="@+id/textView"
    />
23
24  <TextView
25      android:id="@+id/textView4"
26      android:layout_width="167dp"
27      android:layout_height="31dp"
28      android:layout_marginTop="16dp"
29      android:fontFamily="sans-serif"
30      android:text="2MCS - 2021"
31      android:textColor="#000000"
32      android:textSize="24sp"
33      app:layout_constraintEnd_toEndOf="parent"
34      app:layout_constraintHorizontal_bias="0.515"
35      app:layout_constraintStart_toEndOf="@+id/imageView"
36      app:layout_constraintTop_toBottomOf="@+id/textView2"
    " />
37
38  <TextView
39      android:id="@+id/textView5"
40      android:layout_width="167dp"
41      android:layout_height="31dp"
42      android:layout_marginTop="16dp"
43      android:fontFamily="sans-serif"

```

```

44         android:text="raj@chtuni.in"
45         android:textColor="#000000"
46         android:textSize="24sp"
47         app:layout_constraintBottom_toTopOf="@+id/display"
48         app:layout_constraintEnd_toEndOf="parent"
49         app:layout_constraintHorizontal_bias="0.515"
50         app:layout_constraintStart_toEndOf="@+id/imageView"
51         app:layout_constraintTop_toBottomOf="@+id/textView4
"
52         app:layout_constraintVertical_bias="0.0" />
53
54     <TextView
55         android:id="@+id/textView2"
56         android:layout_width="167dp"
57         android:layout_height="31dp"
58         android:layout_marginTop="16dp"
59         android:fontFamily="sans-serif"
60         android:text="2047120"
61         android:textColor="#000000"
62         android:textSize="24sp"
63         app:layout_constraintEnd_toEndOf="parent"
64         app:layout_constraintHorizontal_bias="0.515"
65         app:layout_constraintStart_toEndOf="@+id/imageView"
66         app:layout_constraintTop_toBottomOf="@+id/textView3
" />
67
68     <Button
69         android:id="@+id/count"
70         android:layout_width="180dp"
71         android:layout_height="72dp"
72         android:layout_marginEnd="16dp"
73         android:layout_marginRight="16dp"
74         android:layout_marginBottom="16dp"
75         android:fontFamily="@font/aclonica"
76         android:onClick="counter"
77         android:text="Count"
78         android:textSize="24sp"
79         app:backgroundTint="#000000"
80         app:layout_constraintBottom_toBottomOf="parent"
81         app:layout_constraintEnd_toEndOf="parent"
82         app:layout_constraintHorizontal_bias="1.0"
83         app:layout_constraintStart_toEndOf="@+id/toast" />
84
85     <Button
86         android:id="@+id/toast"
87         android:layout_width="180dp"

```

```

88         android:layout_height="72dp"
89         android:layout_marginStart="16dp"
90         android:layout_marginLeft="16dp"
91         android:layout_marginBottom="16dp"
92         android:fontFamily="@font/aclonica"
93         android:onClick="showToast"
94         android:text="Toast"
95         android:textSize="24sp"
96         app:backgroundTint="#000000"
97         app:layout_constraintBottom_toBottomOf="parent"
98         app:layout_constraintStart_toStartOf="parent" />
99
100     <TextView
101         android:id="@+id/textView"
102         android:layout_width="400dp"
103         android:layout_height="53dp"
104         android:layout_marginTop="16dp"
105         android:fontFamily="@font/aclonica"
106         android:gravity="center"
107         android:text="MCS 272 - LAB 01"
108         android:textAppearance="@style/TextAppearance.
AppCompat.Display1"
109         android:textColor="#000000"
110         android:textSize="40sp"
111         app:layout_constraintBottom_toTopOf="@+id/display"
112         app:layout_constraintEnd_toEndOf="parent"
113         app:layout_constraintHorizontal_bias="0.454"
114         app:layout_constraintStart_toStartOf="parent"
115         app:layout_constraintTop_toTopOf="parent"
116         app:layout_constraintVertical_bias="0.0" />
117
118     <ImageView
119         android:id="@+id/imageView"
120         android:layout_width="215dp"
121         android:layout_height="195dp"
122         android:layout_marginTop="24dp"
123         app:layout_constraintBottom_toTopOf="@+id/display"
124         app:layout_constraintEnd_toEndOf="parent"
125         app:layout_constraintHorizontal_bias="0.071"
126         app:layout_constraintStart_toStartOf="parent"
127         app:layout_constraintTop_toBottomOf="@+id/textView"
128
129         app:layout_constraintVertical_bias="0.333"
130         android:src="@drawable/bw" />
131     <TextView

```



```
132         android:id="@+id/display"
133         android:layout_width="379dp"
134         android:layout_height="269dp"
135         android:background="@drawable/customborder"
136         android:ems="10"
137         android:fontFamily="@font/nosifer"
138         android:gravity="center"
139         android:inputType="number"
140         android:text="Welcome"
141         android:textColor="#6908BD"
142         android:textColorHighlight="FFFFFF"
143         android:textColorHint="CA00FF"
144         android:textSize="50sp"
145         app:layout_constraintBottom_toBottomOf="parent"
146         app:layout_constraintEnd_toEndOf="parent"
147         app:layout_constraintHorizontal_bias="0.444"
148         app:layout_constraintStart_toStartOf="parent"
149         app:layout_constraintTop_toTopOf="parent"
150         app:layout_constraintVertical_bias="0.701" />
151
152     </androidx.constraintlayout.widget.ConstraintLayout>
```