

Name : Shivam Tyagi

Reg No : 2047122

Course : MCS272 Mobile Applications (Lab 01

Output :

1. Welcome(Hiii) Screen



2. Toast button Clicked.



3.Count button is clicked (9th time)



4.Toast button is clicked



5.Count button is clicked (72nd time)



6.Toast button is clicked



MainActivity.java

```
package com.example.myapplication;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    private int count=0;
    private TextView disp;
    Button button,button2;
    private TextView textView, textView2,textView3,textView4;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        disp=(TextView) findViewById(R.id.display);
        button =(Button) findViewById(R.id.button);
        button2 =(Button) findViewById(R.id.button2);
        textView=(TextView) findViewById(R.id.textView);
        textView2=(TextView) findViewById(R.id.textView2);
        textView3=(TextView) findViewById(R.id.textView3);
        textView4=(TextView) findViewById(R.id.textView4);
        button.setOnClickListener(new View.OnClickListener(){
            public void onClick(View v){
                View view =
getLayoutInflater().inflate(R.layout.custom_toast,findViewById(R.id.viewgrp));
                //count ++;
                Toast toast = new Toast(MainActivity.this);
                toast.setDuration(Toast.LENGTH_LONG);
                v = toast.getView();
                toast.setView(view);
            }
        });
    }
}
```

```

        TextView toastmeassge=view.findViewById(R.id.toast_message);
        toastmeassge.setText("Your count is " + Integer.toString(count));
        toast.show();

    }
});
button2.setOnClickListener(new View.OnClickListener(){
    public void onClick(View v){
        count++;
        disp.setText(Integer.toString(count));

    }
});
}
// public void counter(View view){
//     count ++;
//     disp.setText(Integer.toString(count));
//     if(disp != null){
//         Random rnd = new Random();
//         disp.setText(150);
//         int color =
Color.rgb(rnd.nextInt(256),rnd.nextInt(256),rnd.nextInt(256));
//         disp.setTextColor(color);
//         disp.setText(Integer.toString(count));
//     }
// }

```

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"  
android:background="@drawable/background"  
tools:context=".MainActivity"  
>
```

```
<TextView  
    android:id="@+id/textView"  
    android:layout_width="296dp"  
    android:layout_height="wrap_content"  
    android:layout_alignParentStart="true"  
    android:layout_alignParentLeft="true"  
    android:layout_alignParentTop="true"  
    android:layout_alignParentEnd="true"  
    android:layout_alignParentRight="true"  
    android:layout_alignParentBottom="true"  
    android:layout_centerHorizontal="true"  
    android:text="@string/mcs_272_lab_01"  
    android:textAllCaps="true"  
    android:textColor="#F6C307"  
    android:textSize="34sp"  
    android:textStyle="italic"  
    android:visibility="visible"  
    app:layout_constraintBottom_toBottomOf="parent"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintHorizontal_bias="0.591"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent"  
    app:layout_constraintVertical_bias="0.051" />
```

```
<TextView  
    android:id="@+id/textView2"  
    android:layout_width="wrap_content"  
    android:layout_height="32dp"  
    android:layout_alignParentStart="true"  
    android:layout_alignParentLeft="true"  
    android:layout_alignParentTop="true"  
    android:layout_alignParentEnd="true"  
    android:layout_alignParentRight="true"
```



```
android:layout_alignParentBottom="true"
android:text="@string/shivam_tyagi"
android:textAllCaps="false"
android:textColor="#F6C307"
android:textSize="22sp"
android:textStyle="normal"
android:visibility="visible"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.685"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.197" />
```

<TextView

```
android:id="@+id/textView3"
android:layout_width="138dp"
android:layout_height="42dp"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignParentBottom="true"
android:text="@string/_2047122"
android:textAllCaps="false"
android:textColor="#F6C307"
android:textSize="22sp"
android:textStyle="normal"
android:visibility="visible"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.703"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.246" />
```

<TextView

```
android:id="@+id/textView4"
android:layout_width="185dp"
android:layout_height="wrap_content"
```

```
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignParentBottom="true"
android:text="@string/_2mcs_2021"
android:textAllCaps="false"
android:textColor="#F6C307"
android:textSize="22sp"
android:textStyle="normal"
android:visibility="visible"
app:layout_constraintBottom_toTopOf="@+id/button2"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.849"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.351" />
```

<ImageView

```
android:id="@+id/imageView2"
android:layout_width="171dp"
android:layout_height="230dp"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignParentBottom="true"
android:contentDescription="@string/todo"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.213"
app:srcCompat="@drawable/mypic" />
```

<Button

```
android:id="@+id/button"
android:layout_width="155dp"
```



```
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignParentBottom="true"
android:text="@string/toast"
android:textColor="#000000"
android:visibility="visible"
app:backgroundTint="#F6C506"
app:iconTint="#EC1414"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.175"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.926" />
```

<Button

```
android:id="@+id/button2"
android:layout_width="155dp"
android:layout_height="wrap_content"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignParentBottom="true"
android:text="@string/count"
android:textColor="#000000"
android:visibility="visible"
app:backgroundTint="#F6C506"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.894"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.926" />
```

<TextView

```
android:id="@+id/display"
android:layout_width="134dp"
android:layout_height="183dp"
android:layout_alignParentStart="true"
android:layout_alignParentLeft="true"
android:layout_alignParentTop="true"
android:layout_alignParentEnd="true"
android:layout_alignParentRight="true"
android:layout_alignParentBottom="true"
android:inputType="number"
android:text="@string/hiii"
android:textColor="@color/black"
android:textSize="54sp"
android:textStyle="normal"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.57"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.633" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```