

# Practical: 2

**AIM:** TextView and its properties, Toast Message, Snackbar Message, Android in-built resources like color, Activity Life Cycle, Log Message in logcat, Properties of Layout ConstraintLayout, Generate id of TextView.

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- Create Activity to display “Hello World” in TextView in the center of Activity screen with yellow (android:background="#FFFF00") layout background of Activity. TextView properties should be Holo Blue color (android:textColor=@android:color/holo\_blue\_bright), 27sp font size (android:textSize="27sp") and make text style bold and italic (android:textStyle="bold|italic"). After creating Activity, demonstrate functions of Activity Life Cycle by using Log message, Toast message & Snackbar message. All methods of Activity life cycle should be printed in Logcat.

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"
    android:background="#ffff00"
    android:id="@+id/mycl">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        android:id="@+id/openActivity"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        android:textColor="@color/holo_blue_bright"
        android:textSize="27sp"
        android:textStyle="bold|italic"/>

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

### MainActivity.kt

```
package com.example.madpractical2_21012022022

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.util.Log
import android.widget.Toast
import androidx.constraintlayout.widget.ConstraintLayout
import com.google.android.material.snackbar.Snackbar

class MainActivity : AppCompatActivity() {
    private val TAG = "MainActivity"
    private lateinit var mycl:ConstraintLayout
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        mycl=findViewById(R.id.mycl)
        Log.i(TAG, "onCreate: function called")
        Toast.makeText(this,"onCreate: function
called",Toast.LENGTH_LONG).show()
        Snackbar.make(mycl,"onCreate: function called",
        Snackbar.LENGTH_LONG).show()
    }
    override fun onStart() {
        Log.i(TAG, "onStart: function called")
        Toast.makeText(this,"onStart: function
called",Toast.LENGTH_LONG).show()
        Snackbar.make(mycl,"onStart: function called",
        Snackbar.LENGTH_LONG).show()
        super.onStart()
    }

    override fun onRestart() {
        super.onRestart()
        Log.i(TAG, "onRestart: function called")
        Toast.makeText(this,"onRestart: function
called",Toast.LENGTH_LONG).show()
        Snackbar.make(mycl,"onRestart: function called",
```

```
        Snackbar.LENGTH_LONG).show()
    }

    override fun onResume() {
        super.onResume()
        Log.i(TAG, "onResume: function called")
        Toast.makeText(this, "onResume: function
called", Toast.LENGTH_LONG).show()
        Snackbar.make(myCl, "onResume: function called",
        Snackbar.LENGTH_LONG).show()
    }

    override fun onPause() {
        super.onPause()
        Log.i(TAG, "onPause: function called")
        Toast.makeText(this, "onPause: function
called", Toast.LENGTH_LONG).show()
        Snackbar.make(myCl, "onPause: function called",
        Snackbar.LENGTH_LONG).setDuration(10000)
    }

    override fun onStop() {
        super.onStop()
        Log.i(TAG, "onStop: function called")
        Toast.makeText(this, "onStop: function
called", Toast.LENGTH_LONG).show()
        Snackbar.make(myCl, "onStop: function called",
        Snackbar.LENGTH_LONG).show()
    }

    override fun onDestroy() {
        super.onDestroy()
        Log.i(TAG, "onDestroy: function called")
        Toast.makeText(this, "onDestroy: function
called", Toast.LENGTH_LONG).show()
        Snackbar.make(myCl, "onDestroy: function called",
        Snackbar.LENGTH_LONG).show()
    }
}
```

## Practical: 2

### Output:

```
Logcat
[Xiaomi Redmi 5 Android 8.1.0, A] com.example.madpractical2_2101202222 Info MainActivity
2022-08-27 12:06:51.491 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onCreate: function called
2022-08-27 12:06:51.573 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onStart: function called
2022-08-27 12:06:51.620 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onResume: function called
2022-08-27 12:06:55.670 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onPause: function called
2022-08-27 12:06:55.813 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onStop: function called
2022-08-27 12:06:57.444 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onRestart: function called
2022-08-27 12:06:57.475 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onStart: function called
2022-08-27 12:06:57.507 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onResume: function called
2022-08-27 12:06:59.434 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onPause: function called
2022-08-27 12:06:59.943 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onStop: function called
2022-08-27 12:06:59.981 20630-20630/com.example.madpractical2_2101202222 I/MainActivity: onDestroy: function called

Successfully shared project on GitHub
MADPractical2_2101202222
```

