**[ 2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT]**

Practical: 2

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**Study:**

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

**AIM:**

 Create Activity to display “Hello World” in [TextView](https://developer.android.com/guide/topics/ui/look-and-feel/autosizing-textview" \t "_blank) in the center of Activity screen with yellow (android:background="#FFFF00") layout background of Activity. [TextView](https://developer.android.com/guide/topics/ui/look-and-feel/autosizing-textview" \t "_blank) 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](https://developer.android.com/guide/components/activities/activity-lifecycle) by using [Log](https://developer.android.com/studio/debug/am-logcat) message, [Toast](https://developer.android.com/guide/topics/ui/notifiers/toasts) message & [Snackbar](https://developer.android.com/training/snackbar/showing" \t "_blank) message. All methods of Activity life cycle should be printed in [Logcat](https://developer.android.com/studio/debug/am-logcat).

**Code:**

**MainActivity**

package com.example.mad\_practical\_2\_21012021003

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

import android.util.Log

import android.view.View

import android.widget.Toast

import androidx.constraintlayout.widget.ConstraintLayout

import com.google.android.material.snackbar.Snackbar

class MainActivity : AppCompatActivity() {

val TAG = "MainActivity"

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

setContentView(R.layout.activity\_main)

showMessage("onCreate method is called")

}

fun showMessage(msg:String){

Log.i(TAG, msg)

Toast.makeText(this, msg, Toast.LENGTH\_SHORT).show()

val v: ConstraintLayout? = findViewById(R.id.myConstraintLayout)

if (v !=null)

Snackbar.make(

findViewById(R.id.myConstraintLayout),msg,Snackbar.LENGTH\_SHORT

).show()

}

override fun onStart() {

super.onStart()

showMessage("onStart method is called")

}

override fun onResume() {

super.onResume()

showMessage("onResume method is called")

}

override fun onPause() {

super.onPause()

showMessage("onPause method is called")

}

override fun onStop() {

super.onStop()

showMessage("onStop method is called")

}

override fun onDestroy() {

super.onDestroy()

showMessage("onDestroy method is called")

}

override fun onRestart() {

super.onRestart()

showMessage("onRestart method is called")

}

}

**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="#FFFF00"

android:id="@+id/myConstraintLayout"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text=" Hello World!"

android:textColor="@android:color/holo\_red\_dark"

android:textSize="30sp"

android:textStyle="bold|italic"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>



