

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 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.

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>

```

2023-07-28 08:46:50.624 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onCreate method is called
2023-07-28 08:46:50.780 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onStart method is called
2023-07-28 08:46:50.798 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onResume method is called
2023-07-28 08:47:17.626 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onPause method is called
2023-07-28 08:47:17.740 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onStop method is called
2023-07-28 08:47:23.362 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onRestart method is called
2023-07-28 08:47:23.411 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onStart method is called
2023-07-28 08:47:23.477 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onResume method is called
2023-07-28 08:47:34.704 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onPause method is called
2023-07-28 08:47:34.810 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onStop method is called
2023-07-28 08:47:34.864 10600-10600 MainActivity	com...e.mad_practical_2_21012021003	I	onDestroy method is called

