

## Practical: 2

**AIM-** Create Activity to display “Hello World” in TextView in the center of Activity screen with yellow layout background of Activity. TextView properties should be Holo Blue color. 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.

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Create a “Hello World” application which has a yellow layout background with red color,20sp font size and display text on the center of the screen .

### 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="#FFF000"
    android:id="@+id/mainConstraint"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="@android:color/holo_blue_bright"
        android:textSize="35sp"
        android:textStyle="bold|italic"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

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

### MainActivity.kt :-

```
package com.example.mad_practical_2_21012011072

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() {
    val TAG = "MainActivity"
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
```

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```
        setContentView(R.layout.activity_main)
        showMsg("onCreate method is called.")
    }

    override fun onStart() {
        super.onStart()
        showMsg("onStart method is called.")
    }

    override fun onResume() {
        super.onResume()
        showMsg("onResume method is called.")
    }

    override fun onPause() {
        super.onPause()
        showMsg("onPause method is called.")
    }

    override fun onStop() {
        super.onStop()
        showMsg("onStop method is called.")
    }

    override fun onDestroy() {
        super.onDestroy()
        showMsg("onDestroy method is called.")
    }

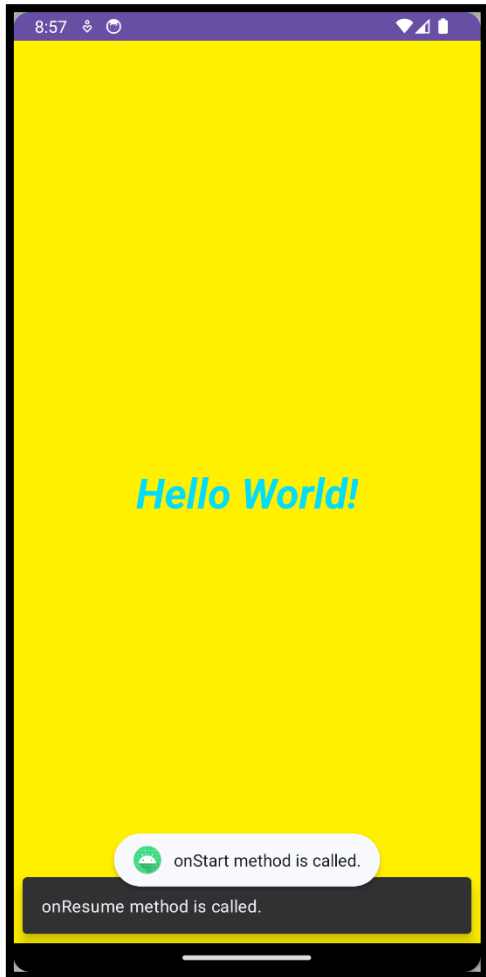
    override fun onRestart() {
        super.onRestart()
        showMsg("onRestart method is called.")
    }

    fun showMsg(message: String) {
        Log.i(TAG, message)
        Toast.makeText(this, message, Toast.LENGTH_SHORT).show()
        val constraint : ConstraintLayout? =
findViewById(R.id.mainConstraint)
        if (constraint != null){

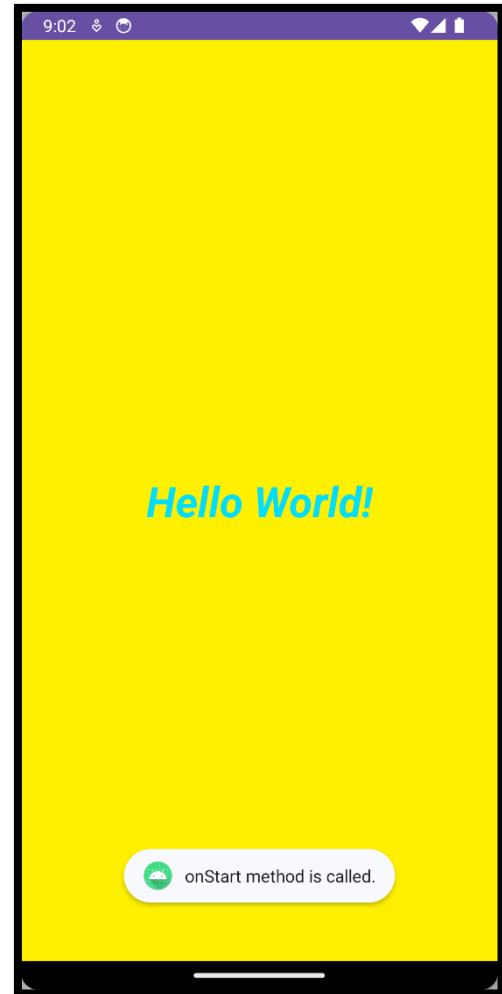
Snackbar.make(constraint,message,Snackbar.LENGTH_SHORT).show()
        }
    }
}
```

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### Output :-



**Snackbar Message**



**Toast Message**

```
2023-07-31 07:31:48.918 16060-16060 MainActivity
2023-07-31 07:35:05.351 16690-16690 MainActivity
2023-07-31 07:35:05.500 16690-16690 MainActivity
2023-07-31 07:35:05.519 16690-16690 MainActivity
2023-07-31 07:35:27.799 16690-16690 MainActivity
2023-07-31 07:35:28.504 16690-16690 MainActivity
2023-07-31 07:35:32.437 16690-16690 MainActivity
2023-07-31 07:35:32.481 16690-16690 MainActivity
2023-07-31 07:35:32.502 16690-16690 MainActivity
2023-07-31 07:36:00.123 16690-16690 MainActivity
2023-07-31 07:36:00.970 16690-16690 MainActivity
2023-07-31 07:36:02.476 16690-16690 MainActivity
```

```
com...e.mad_practical_2_21012011072 I onCreate method is called.
com...e.mad_practical_2_21012011072 I onCreate method is called.
com...e.mad_practical_2_21012011072 I onStart method is called.
com...e.mad_practical_2_21012011072 I onResume method is called.
com...e.mad_practical_2_21012011072 I onPause method is called.
com...e.mad_practical_2_21012011072 I onStop method is called.
com...e.mad_practical_2_21012011072 I onRestart method is called.
com...e.mad_practical_2_21012011072 I onStart method is called.
com...e.mad_practical_2_21012011072 I onResume method is called.
com...e.mad_practical_2_21012011072 I onPause method is called.
com...e.mad_practical_2_21012011072 I onStop method is called.
com...e.mad_practical_2_21012011072 I onDestroy method is called.
```

**Log Message in LogCat**