

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)
```

```

        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.")
    }

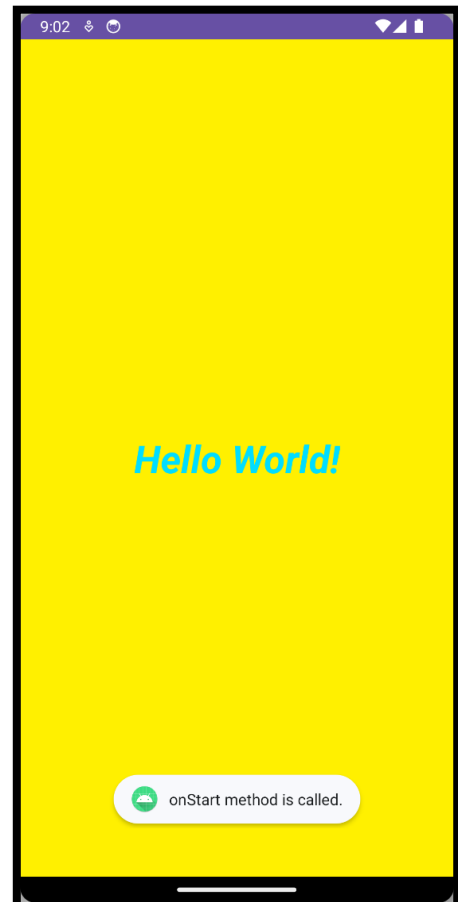
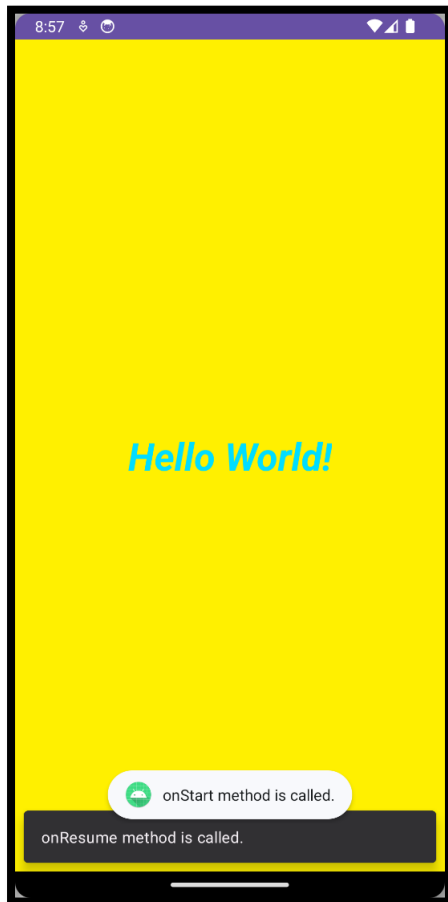
    override fun onDestroy() {
        super.onDestroy()
        showMsg("onDestroy method is called.")
    }

    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()
        }
    }
}

```

Output :-



Log Message in LogCat

```
2023-08-03 21:24:16.025 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onCreate method is called
2023-08-03 21:24:16.357 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onStart method is called
2023-08-03 21:24:16.401 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onResume method is called
2023-08-03 21:24:28.822 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onPause method is called
2023-08-03 21:24:29.106 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onStop method is called
2023-08-03 21:24:32.282 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onRestart Method is called
2023-08-03 21:24:32.332 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onStart method is called
2023-08-03 21:24:32.370 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onResume method is called
2023-08-03 21:24:41.060 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onPause method is called
2023-08-03 21:24:41.115 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onStop method is called
2023-08-03 21:24:41.198 9263-9263 MainActivity com...e.mad_practical_2_21012021031 I onDestroy method is called
```