

MOBILE APPLICATION PROGRAMMING LAB

PRACTICAL-1

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ROLL NO: 69

BATCH: A4

AIM: Study of Android Development Environment Develop “HelloWorld” application that uses GUI components, Font and Colors, and demonstration of activity lifecycle methods.

```
JAVA CODE: package com.example.myapplication1;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.util.Log;

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Log.d("Activity LifeCycle", "Activity Created");
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.d("Activity LifeCycle", "Activity Started");
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        Log.d("Activity LifeCycle", "Activity Destroyed");
    }

    @Override
    protected void onPause() {
        super.onPause();
        Log.d("Activity LifeCycle", "Activity Paused");
    }

    @Override
    protected void onResume() {
        super.onResume();
    }
}
```

```

        Log.d("Acivity LifeCycle", "Activity Running");
    }

    @Override
    protected void onRestart() {
        super.onRestart();
        Log.d("Acivity LifeCycle", "Activity Re-Started");
    }

    @Override
    protected void onStop() {
        super.onStop();
        Log.d("Acivity LifeCycle", "Activity Stopped");
    }
}

```

```

2023-10-15 11:19:05.083 22741-22741 Compatibil...geReporter com.example.myapplication1 D Compat change id reported: 171979766; UID 10146; state: ENABLED
2023-10-15 11:19:05.455 22741-22741 GraphicsEnvironment com.example.myapplication1 V ANGLE Developer option for 'com.example.myapplication1' set to: 'default'
2023-10-15 11:19:05.455 22741-22741 GraphicsEnvironment com.example.myapplication1 V Neither updatable production driver nor prerelease driver is supported.
2023-10-15 11:19:05.462 22741-22741 NetworkSecurityConfig com.example.myapplication1 D No Network Security Config specified, using platform default
2023-10-15 11:19:05.464 22741-22741 NetworkSecurityConfig com.example.myapplication1 D No Network Security Config specified, using platform default
2023-10-15 11:19:05.550 22741-22788 libEGL com.example.myapplication1 D loaded /vendor/lib64/egl/libEGL_emulation.so
2023-10-15 11:19:05.557 22741-22788 libEGL com.example.myapplication1 D loaded /vendor/lib64/egl/libGLESv1_CM_emulation.so
2023-10-15 11:19:05.562 22741-22788 libEGL com.example.myapplication1 D loaded /vendor/lib64/egl/libGLESv2_emulation.so
2023-10-15 11:19:05.657 22741-22741 AppCompatDelegate com.example.myapplication1 D Checking for metadata for AppLocalesMetadataHolderService : Service not found
2023-10-15 11:19:05.799 22741-22741 .myapplication com.example.myapplication1 W Accessing hidden method Landroid/view/View;->computeFitSystemWindows(Landroid/graphics/RectF;Landroid/view/View$MeasureSpec;Z)Z
2023-10-15 11:19:05.801 22741-22741 .myapplication com.example.myapplication1 W Accessing hidden method Landroid/view/ViewGroup;->makeOptionalFitsSystemWindows()V (Landroid/view/ViewGroup;Z)V
2023-10-15 11:19:05.849 22741-22741 Activity LifeCycle com.example.myapplication1 D Activity Created
2023-10-15 11:19:05.939 22741-22741 Activity LifeCycle com.example.myapplication1 D Activity Started
2023-10-15 11:19:05.941 22741-22741 Activity LifeCycle com.example.myapplication1 D Activity Running
2023-10-15 11:19:06.042 22741-22785 HostConnection com.example.myapplication1 D createUnique: call
2023-10-15 11:19:06.042 22741-22785 HostConnection com.example.myapplication1 D HostConnection::get() New Host Connection established 0x7fd0b302ef50, tid 22785
2023-10-15 11:19:06.061 22741-22785 HostConnection com.example.myapplication1 D HostComposition ext ANDROID_EMU_CHECKSUM_HELPER_v1 ANDROID_EMU_native_sync_v2 ANDROID_EMU_drm ANDROID_EMU_egl
2023-10-15 11:19:06.065 22741-22785 OpenGLRenderer com.example.myapplication1 W Failed to choose config with EGL_SWAP_BEHAVIOR_PRESERVED, retrying without...
2023-10-15 11:19:06.066 22741-22785 OpenGLRenderer com.example.myapplication1 W Failed to initialize 101010-2 format, error = EGL_SUCCESS
2023-10-15 11:19:06.083 22741-22785 EGL_emulation com.example.myapplication1 D eglCreateContext: 0x7fd0b302f198: maj 3 min 1 rev 4
2023-10-15 11:19:06.085 22741-22785 EGL_emulation com.example.myapplication1 D eglMakeCurrent: 0x7fd0b302f198: ver 3 1 (tinfo 0x7fd2d1af8000) (first time)
2023-10-15 11:19:06.112 22741-22785 Gralloc4 com.example.myapplication1 I mapper 4.x is not supported
2023-10-15 11:19:06.116 22741-22785 HostConnection com.example.myapplication1 D createUnique: call
2023-10-15 11:19:06.116 22741-22785 HostConnection com.example.myapplication1 D HostConnection::get() New Host Connection established 0x7fd0b302fd00, tid 22785
2023-10-15 11:19:06.117 22741-22785 goldfish-address-space com.example.myapplication1 D allocate: Ask for block of size 0x100
2023-10-15 11:19:06.118 22741-22785 goldfish-address-space com.example.myapplication1 D allocate: ioctl allocate returned offset 0x3f3ffe000 size 0x2000
2023-10-15 11:19:06.177 22741-22785 Gralloc4 com.example.myapplication1 W allocator 4.x is not supported
2023-10-15 11:19:06.213 22741-22785 HostConnection com.example.myapplication1 D HostComposition ext ANDROID_EMU_CHECKSUM_HELPER_v1 ANDROID_EMU_native_sync_v2 ANDROID_EMU_drm ANDROID_EMU_egl

```

```

package com.example.myapplication1;

import android.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.util.Log;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Log.d("HelloWorldApp", "onCreate");
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.d("HelloWorldApp", "onStart");
    }

    @Override
    protected void onResume() {
        super.onResume();
        Log.d("HelloWorldApp", "onResume");
    }

    @Override
    protected void onPause() {
        super.onPause();
        Log.d("HelloWorldApp", "onPause");
    }

    @Override
    protected void onStop() {
        super.onStop();
        Log.d("HelloWorldApp", "onStop");
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        Log.d("HelloWorldApp", "onDestroy");
    }

}

```

XML CODE:

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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="#FF5733">

    <TextView

```

```
        android:id="@+id/helloWorldTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:text="Hello, World!"
        android:textColor="#FFFFFF"
        android:textSize="24sp" />
</RelativeLayout>
```



