Experiment1.2

Student Name: Himanshu **UID**: 20BCS7944
Branch: CSE **Section/Group**: 905/A
Semester: 6 **Date of Performance**: 15/02/2023
Subject Name: Mobile Application Development Lab
Subject Code: 20CSP-356

Aim: Understanding and analyze the specific requirements, possibilities and challenges when developing for a mobile application context.

Objective: To design an android application to display Hello World.

Script and Output:

Step 1- First step is to create a simple Android Application using Android studio. When you click on Android studio icon, it will show screen as shown below.

Step 2- You can start your application development by calling start a new android studio project. in a new installation frame should ask Application name, package information and location of the project.

Step 3- Configure the Hello World Project Details We'll finish creating the project by configuring some details about its name, location, and the API version it.

Step 4- Change the name of the application. Change the default Project location to your preferred directory or just leave it as the default location. On the minimum API level, ensure that API 15: Android 4.0.3 IceCreamSandwich is set as the Minimum SDK. This ensures that your application runs on almost all devices.

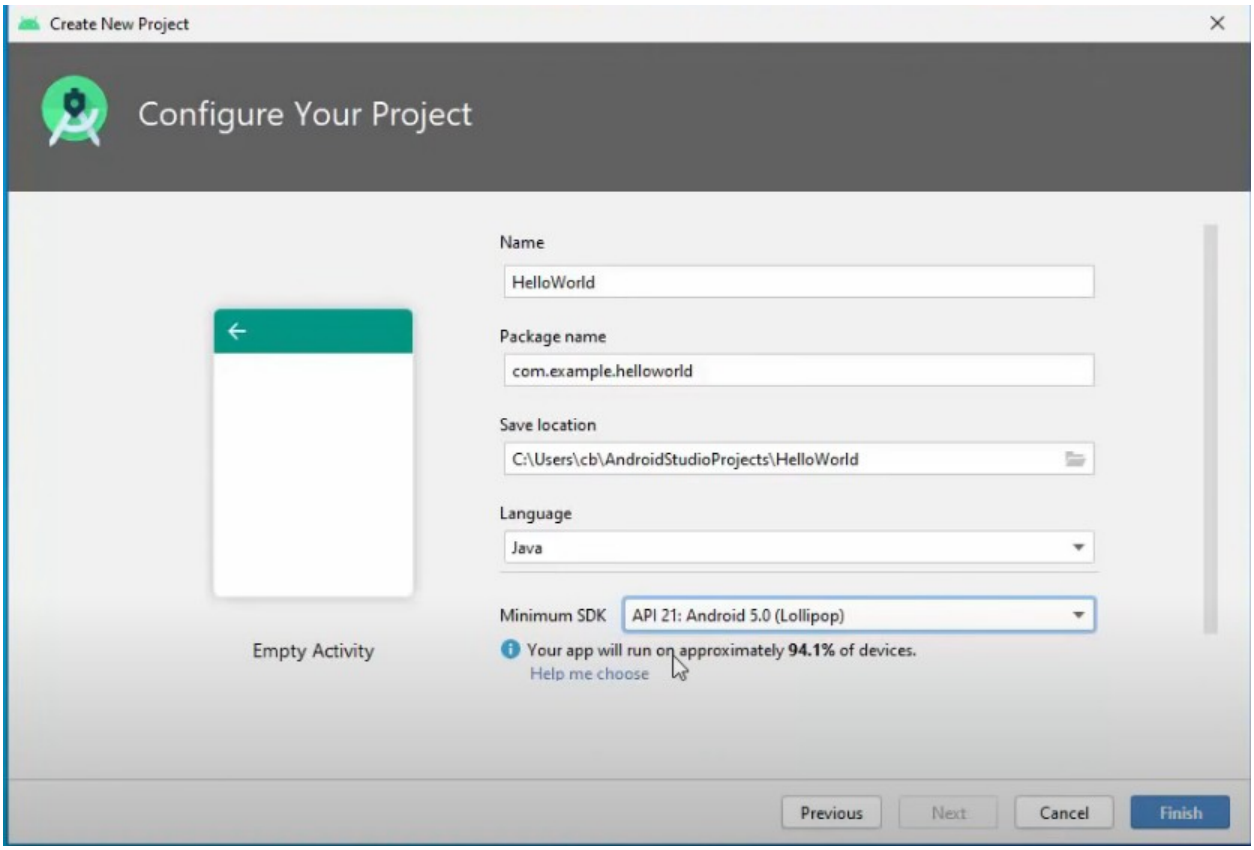
Step 5- The next level of installation should contain selecting the activity to mobile, it specifies the default layout for Applications.

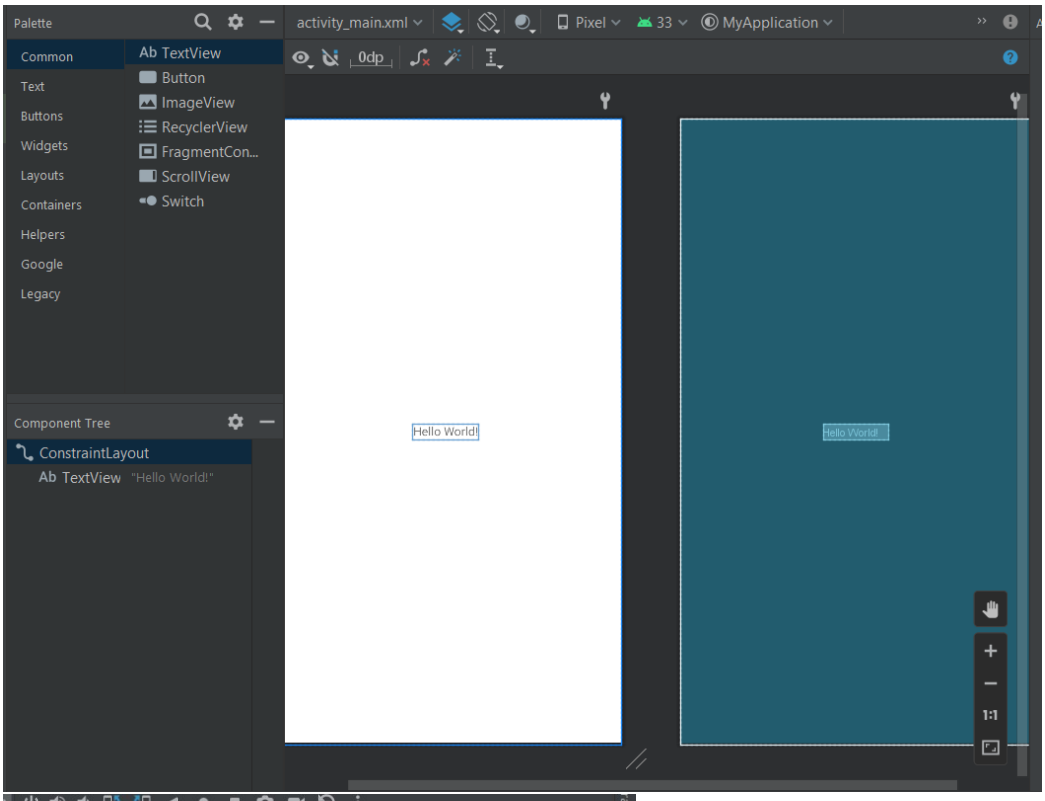
Step 6- Run it on the emulator or your physically connected phone.

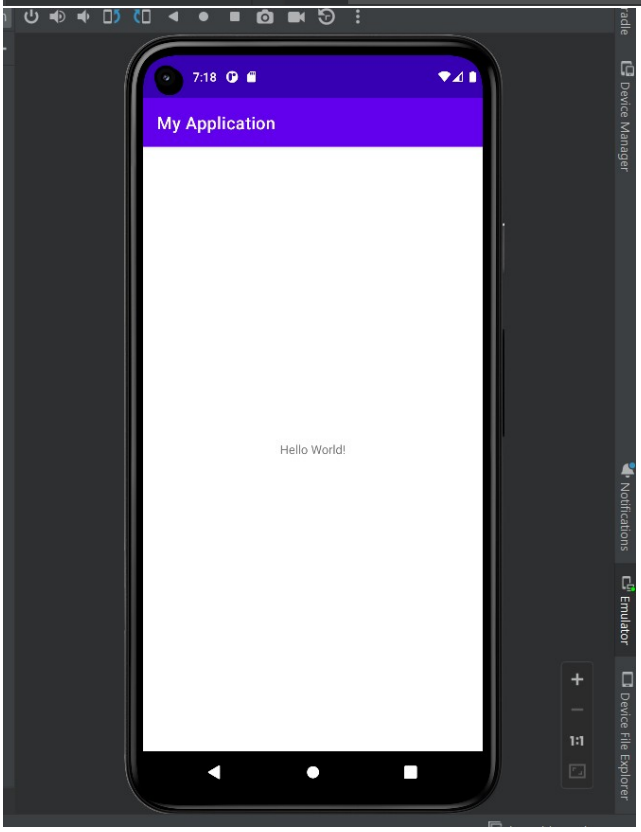
Source Code-

```java
package com.example.myapplication;

import ...

2 usages
public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.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"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Button"
        tools:layout_editor_absoluteX="157dp"
        tools:layout_editor_absoluteY="344dp" />

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


Create New Project
Configure Your Project
Name
HelloWorld
Package name
com.example.helloworld
Save location
C:\Users\cb\AndroidStudioProjects\HelloWorld
Language
Java
Minimum SDK
API 21: Android 5.0 (Lollipop)
Your app will run on approximately 94.1% of devices.
Help me choose
Empty Activity
Previous
Next
Cancel
Finish


Palette
activity_main.xml
Pixel
33
MyApplication
Common
Text
Buttons
Widgets
Layouts
Containers
Helpers
Google
Legacy
Ab TextView
Button
ImageView
RecyclerView
FragmentCon...
ScrollView
Switch
Component Tree
ConstraintLayout
Ab TextView "Hello World!"
Hello World!
Hello World!
1:1


7:18
My Application
Hello World!
Device Manager
Notifications
Emulator
Device File Explorer
1:1