

Experiment No. - 2

Student Name: Vivek Kumar

Branch: BE-CSE(LEET)

Semester: 6th

Subject Name: Mobile Application Development Lab

UID: 21BCS8129

Section/Group: 20BCS-ST-801/B

Date of Performance: 14/02/2023

Subject Code: 20CSP-356

1. Aim/Overview of the practical:

To design an android application to display Hello World.

2. Apparatus / Simulator Used:

1. Linux OS/ Windows 7 or above
2. Android Studio
3. Ram 4 GB and above
4. Java (Including JDK & JRE)

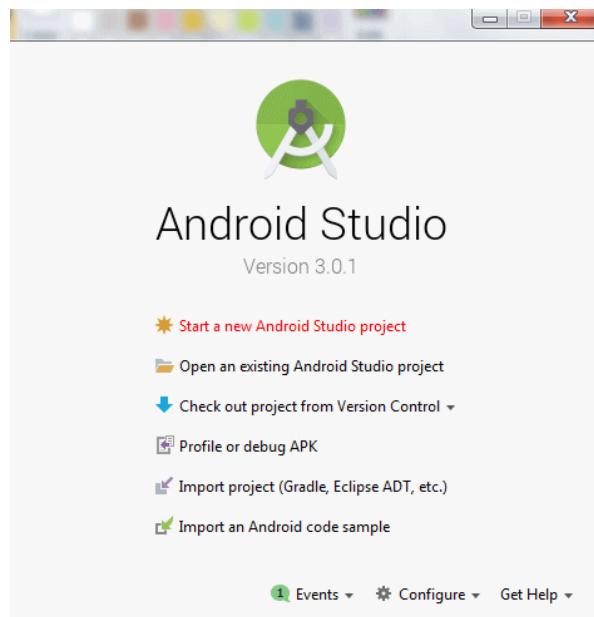
3. Objective:

- a. To understand The Starting Project Creation
- b. To implement the first App in Android Studio with Hello World Message.

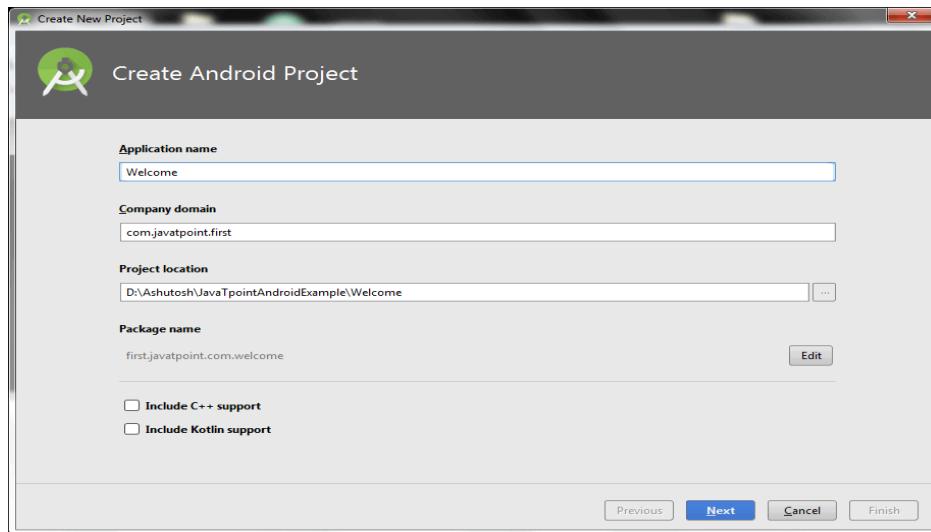
4. Steps:

For creating the new android studio project:

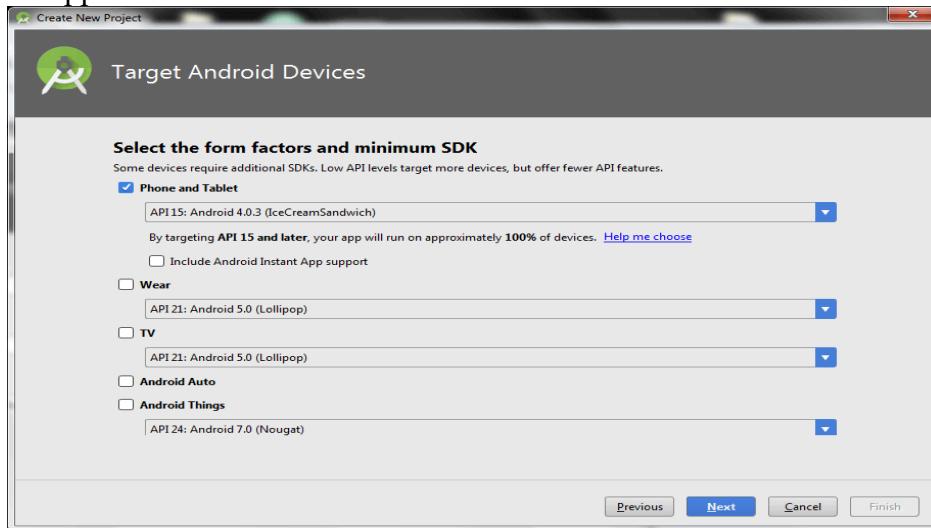
Select *Start a new Android Studio project*



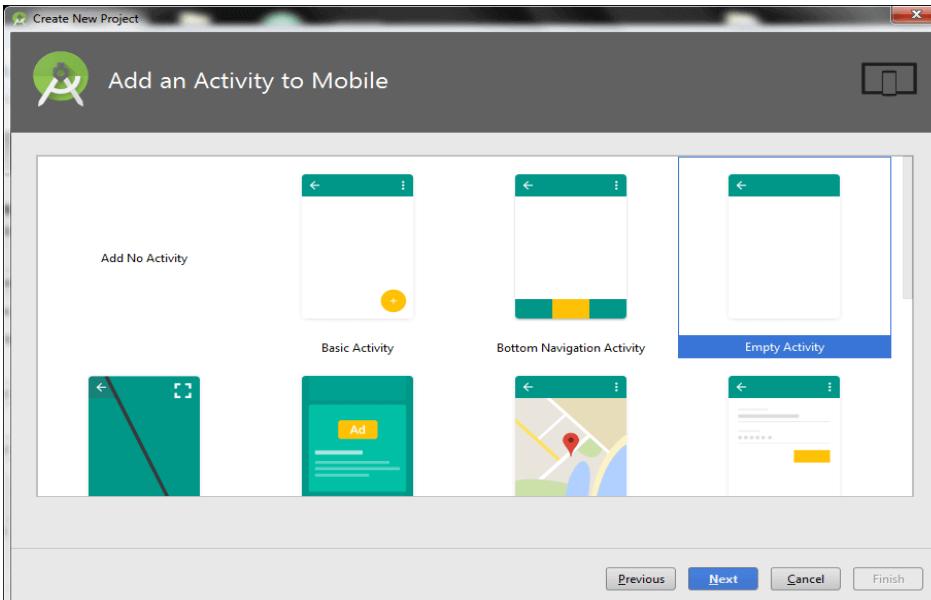
Provide the following information: Application name, Company domain, Project location and Package name of application and click next.



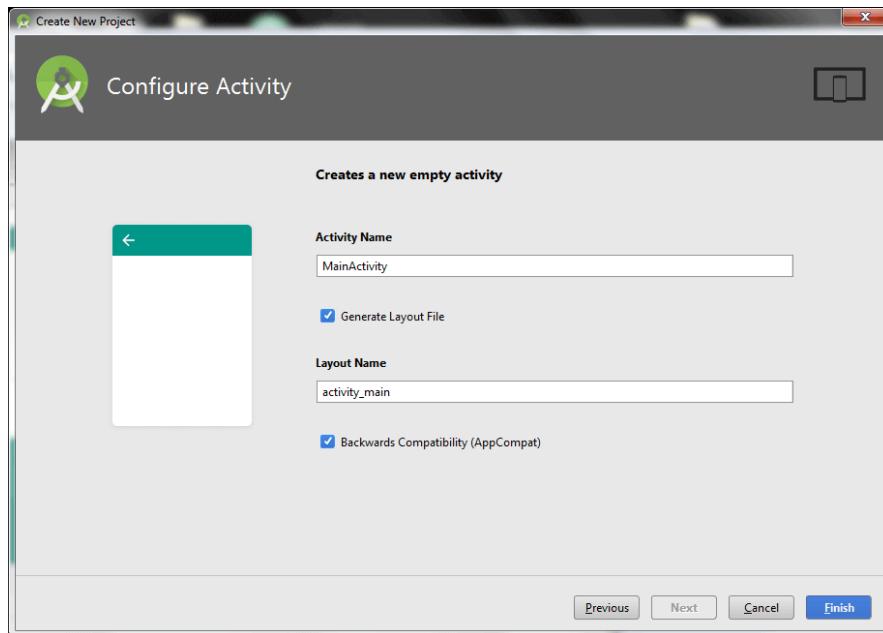
Select the API level of application and click next.



Select the Activity type (Empty Activity).

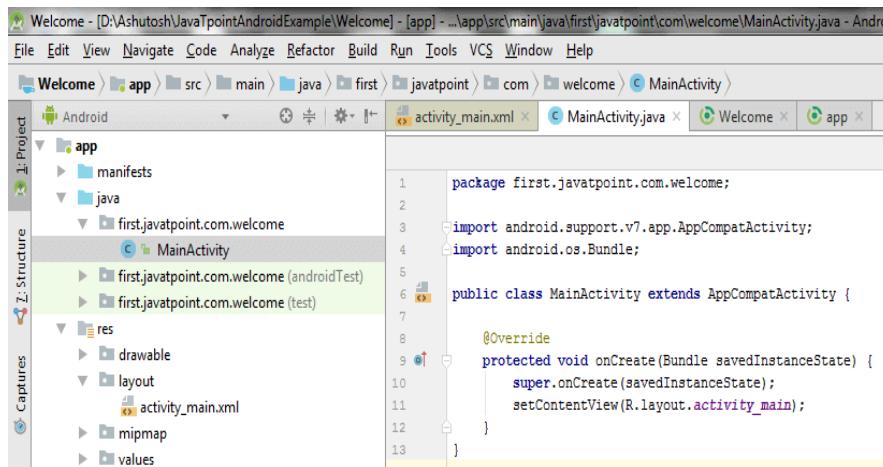


Provide the Activity Name and click finish.



After finishing the Activity configuration, Android Studio auto generates the activity class and other required configuration files.

Now an android project has been created. You can explore the android project and see the simple program; it looks like this:



1. Write the message

File: activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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="first.javatpoint.com.welcome.MainActivity">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello Android!"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</android.support.constraint.ConstraintLayout>
}
```

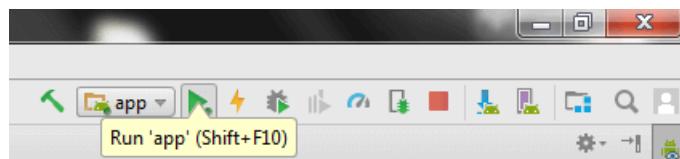
File: MainActivity.java

```
package first.javatpoint.com.welcome;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

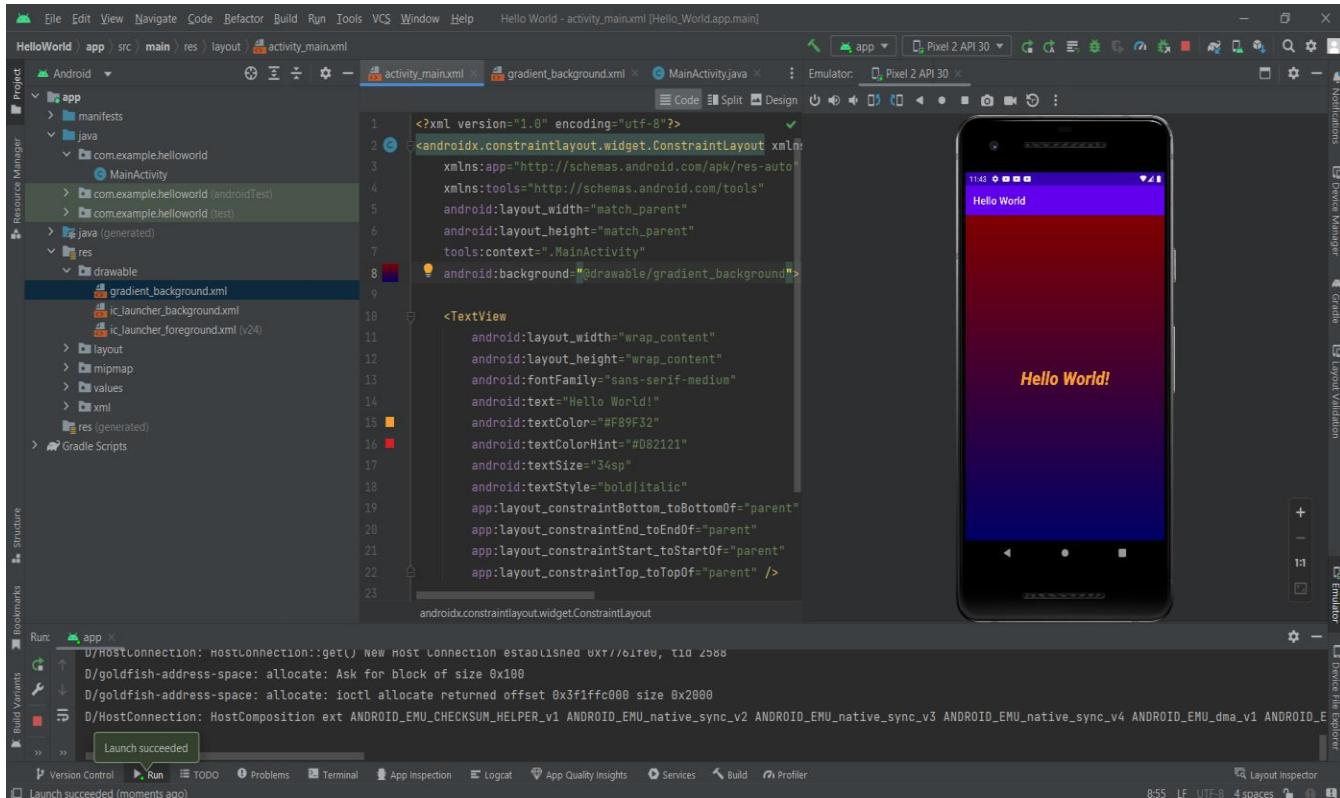
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

2. Run the android application

To run the android application, click the run icon on the toolbar or simply press Shift + F10.



The android emulator might take 2 or 3 minutes to boot. So please have patience. After booting the emulator, the android studio installs the application and launches the activity. You will see something like this:



Learning outcomes (What I have learnt):

- Learned the Android App.
- Learnt how to create the Hello Word app and
- Learnt how to create the Emulator to run the android app.

Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
|---------|--|-----------------------|---------------|
| 1. | Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day). | | |
| 2. | Post-Lab Quiz Result. | | |
| 3. | Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions. | | |
| | Signature of Faculty (with Date): | Total Marks Obtained: | |