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SEC → A

COURSE → BCA

② Create a program to depict Activity life style

```

< ?xml version="1.0" encoding="utf-8"? >
< RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    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"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:textSize="20dp"/>
    </RelativeLayout>
  
```

Java code.

```

package com.example.lifecycle; import
androidx.appcompat.app.AppCompatActivity; import
android.os.Bundle; import android.util.Log; public class
MainActivity extends AppCompatActivity { public static
final String
STATUS = MainActivity.class.getSimpleName();
    @Override
    protected void onCreate (Bundle savedInstanceState) {
        super.onCreate (savedInstanceState);
  
```



```
Set content view (R.layout.activity_main);  
String msg = "on Create method";  
Log.i("status", msg);  
}
```

3
@Override protected

void onStart() {

super.onStart();

String msg = "on onStart method";

Log.i("status", msg);
}

3

@Override protected void

onResume() {

super.onResume();

String msg = "on onResume method";

Log.i("status", msg);
}

3

@Override protected

void onPause() {

super.onPause();

String msg = "on onPause method";

Log.i("status", msg);
}

3

@Override

protected void onStop() {

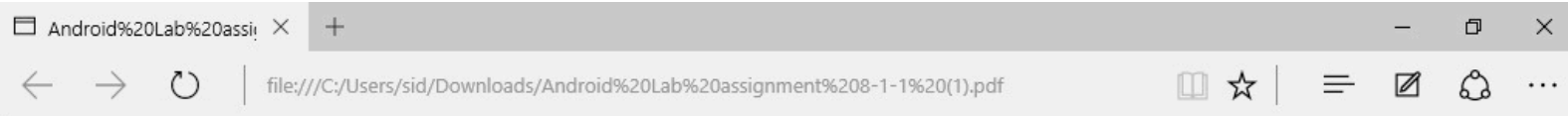
super.onStop();

String msg = "on onStop method";

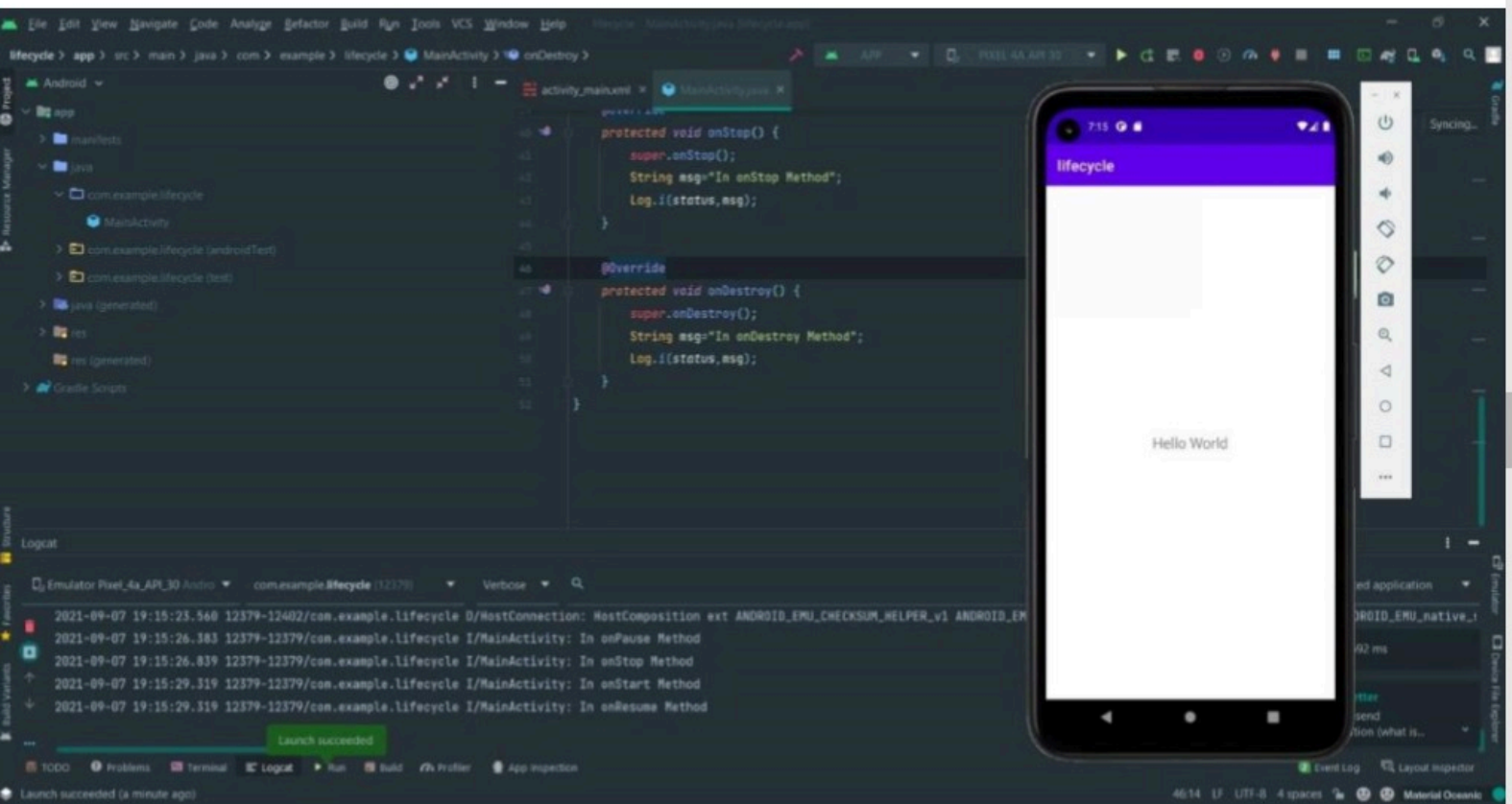
Log.i("status", msg);
}

3


```
@Override  
protected void onDestroy() { super.onDestroy();  
    String msg = "So on destroy method";  
    Log.i("tag", msg);  
}
```



OUTPUT:



The screenshot displays the Android Studio development environment. The main editor window shows the `MainActivity.java` file with the following code:

```
protected void onStop() {  
    super.onStop();  
    String msg="In onStop Method";  
    Log.i(status,msg);  
}  
  
@Override  
protected void onDestroy() {  
    super.onDestroy();  
    String msg="In onDestroy Method";  
    Log.i(status,msg);  
}
```

The Logcat window at the bottom shows the following log entries:

```
2021-09-07 19:15:29.319 12379-12379/com.example.lifecycle I/MainActivity: In onStart Method  
2021-09-07 19:15:29.319 12379-12379/com.example.lifecycle I/MainActivity: In onResume Method  
2021-09-07 19:16:12.015 12379-12379/com.example.lifecycle I/MainActivity: In onPause Method  
2021-09-07 19:16:12.659 12379-12379/com.example.lifecycle I/MainActivity: In onStop Method  
2021-09-07 19:16:49.878 12379-12379/com.example.lifecycle I/MainActivity: In onDestroy Method
```

A green banner at the bottom of the Logcat window indicates "Launch succeeded". The virtual Android phone on the right shows a home screen with a pink gradient background, the date "Tuesday Sep 7", and icons for Messages, Chrome, and a search bar.

Android%20Lab%20assi X +

file:///C:/Users/sid/Downloads/Android%20Lab%20assignment%208-1-1%20(1).pdf

Launch succeeded (a minute ago)

Android Studio interface showing the lifecycle of an Android application. The main activity is MainActivity, and the lifecycle methods are being executed. The Logcat shows the following messages:

```
2021-09-07 19:15:26.839 12379-12379/com.example.lifecycle I/MainActivity: In onStart Method
2021-09-07 19:15:29.319 12379-12379/com.example.lifecycle I/MainActivity: In onResume Method
2021-09-07 19:16:12.815 12379-12379/com.example.lifecycle I/MainActivity: In onPause Method
2021-09-07 19:16:12.659 12379-12379/com.example.lifecycle I/MainActivity: In onStop Method
```

The application is running on a virtual device (Pixel 4a API 30) and the lifecycle methods are being executed in the order: onStart, onResume, onPause, and onStop. The Logcat also shows the following messages:

```
2021-09-07 19:15:26.839 12379-12379/com.example.lifecycle I/MainActivity: In onStart Method
2021-09-07 19:15:29.319 12379-12379/com.example.lifecycle I/MainActivity: In onResume Method
2021-09-07 19:16:12.815 12379-12379/com.example.lifecycle I/MainActivity: In onPause Method
2021-09-07 19:16:12.659 12379-12379/com.example.lifecycle I/MainActivity: In onStop Method
```

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2021-09-07 19:16:12.659 12379-12379/com.example.lifecycle I/MainActivity: In onStop Method
```