



## **UNIVERSITY OF SINDH, JAMSHORO**

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| <b>NAME</b>            | MASOOMA AKBAR MEMON                    |
| <b>ROLL<br/>NUMBER</b> | 2k19/SWEE/35                           |
| <b>DEPARTMENT</b>      | (BS) SOFTWARE ENGINEERING<br>(EVENING) |
| <b>SUBJECT</b>         | MOBILE APPLICATION<br>DEVELOPMENT      |

# Android Mobile Application Development (Using Android Studio 2021)

BSIT/BSSW Part-III - 2<sup>nd</sup> Semester  
ITEC-524 Mobile Application Development  
BSSW SENG-524 Mobile Application Development

**MAD LAB Manual (100 Marks)**  
**By: Dr. Zeeshan Bhatti**

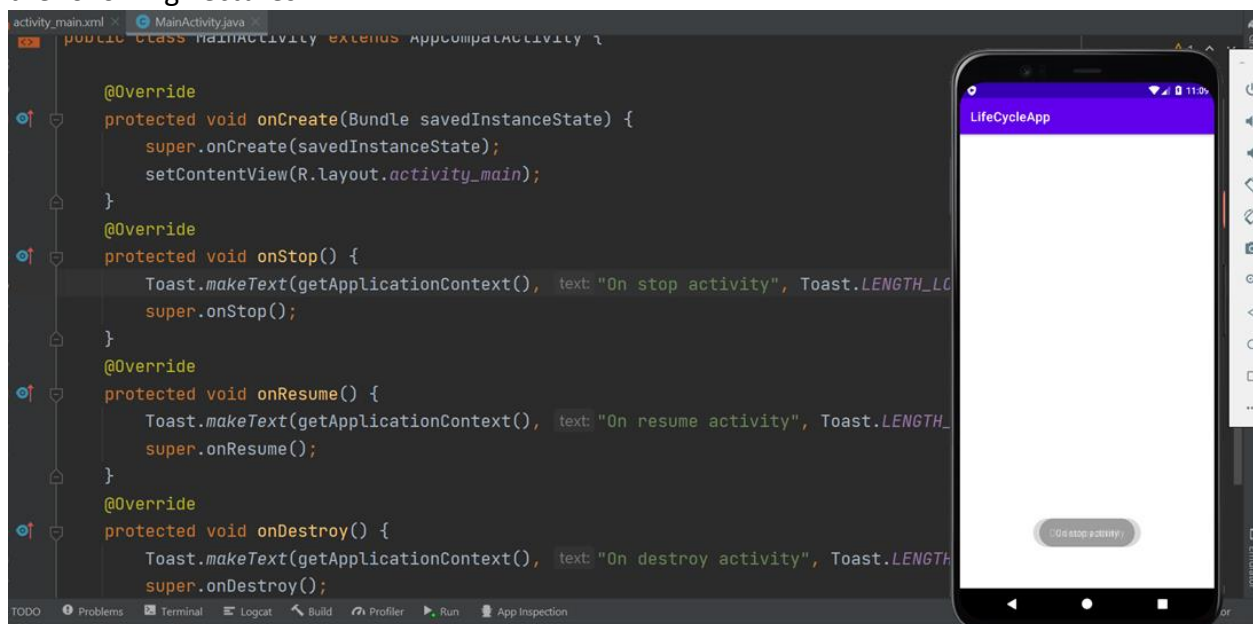
Each student is required to complete the following Lab project works individually. For each project, take Screenshot of the code and results/App output, and create PDF file and Upload it on LMS.

It is required/Compulsory for each student to Watch the given Video Lectures/Tutorials in order to complete the lab projects. Write your Name/Roll Number and status of project (completed) under the comments of each video.

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## LAB Projects for Week-2

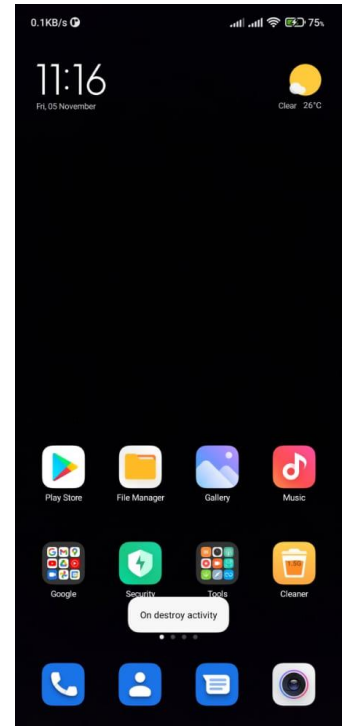
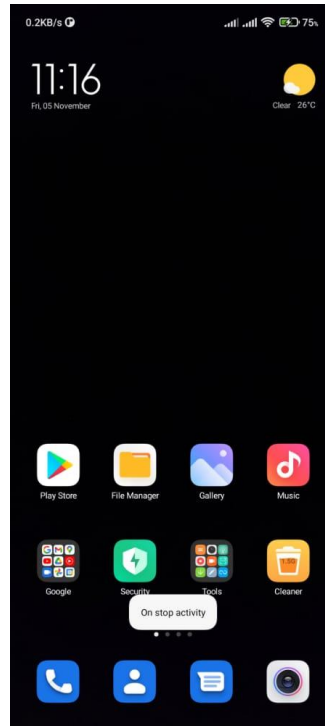
**Task 7:** Create a basic app to demonstrate Android Activity Life Cycle. Watch the following lectures





LifeCycleApp

On resume activity



**Task 8: Create a Basic app for Pakistan Tourism with at least 6 cities, their Famous places to visit, restaurants etc. (or you can choose any other country or city or place)**

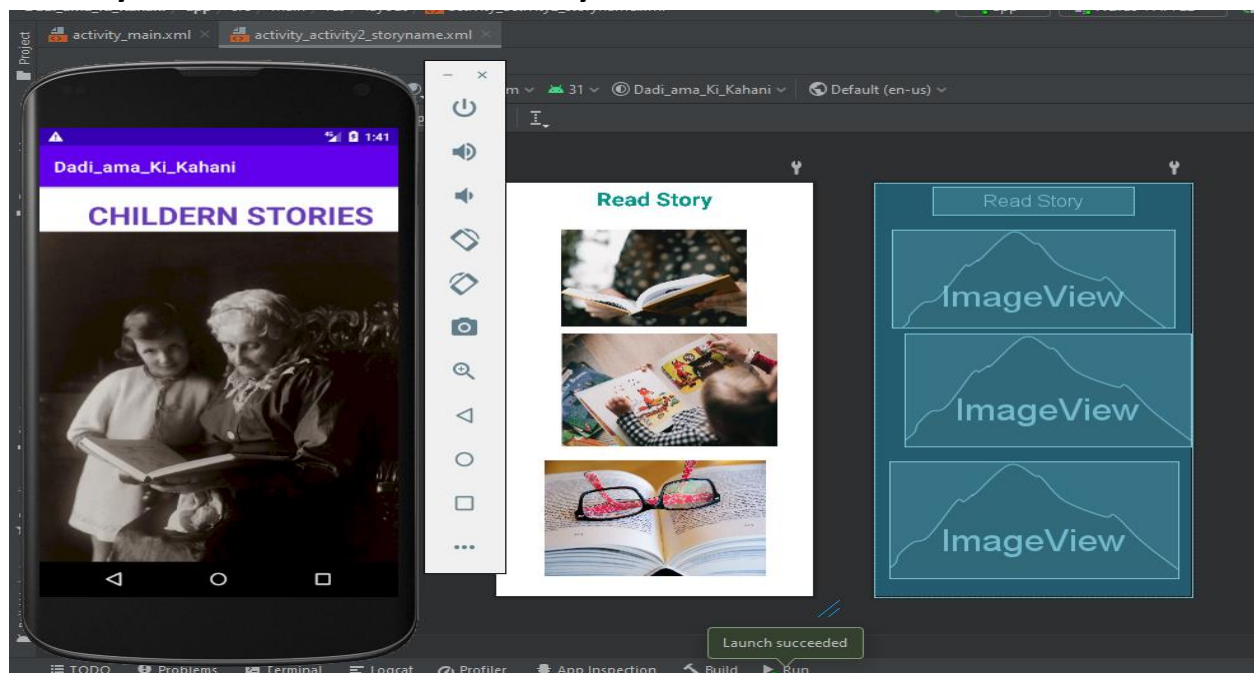
```

11 public class MainActivity extends AppCompatActivity {
12
13     Button tourBtn;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19
20         tourBtn = findViewById(R.id.tourBtn);
21
22         tourBtn.setOnClickListener(new View.OnClickListener() {
23             @Override
24             public void onClick(View view) { cityToVisit(); }
25         });
26
27     }
28
29     public void cityToVisit() {
30         Intent intent = new Intent( packageContext: this, CityToVisit_Activity.class);
31         startActivity(intent);
32     }

```



**Task 9: Create a Story reading App for Children called “Dadi Amma ke Kehaniyan” with at least 6 stories of your choice.**



## Task 10: Create a full Android App for “COVID-19 Student Registration App for University “

```
MainActivity.java
2
3
10 import ...
11 public class MainActivity extends AppCompatActivity {
12     ImageView studentBtn;
13     ImageView teacherBtn;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19         studentBtn = findViewById(R.id.studentBtn);
20         teacherBtn = findViewById(R.id.teacherBtn);
21         studentBtn.setOnClickListener(new View.OnClickListener() {
22             @Override
23             public void onClick(View view) { studentActivity(); }
24         });
25         teacherBtn.setOnClickListener(new View.OnClickListener() {
26             @Override
27             public void onClick(View view) { teacherActivity(); }
28         });
29     }
30 }
```

TODO Problems Terminal Logcat Build Profiler App Inspection

Gradle sync finished in 53 s 637 ms (3 minutes ago)

Event Log Layout Inspector

10:1 LF UTF-8 4 spaces

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MainActivity.java
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10 @Override
11 public void onClick(View view) { studentActivity(); }
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19 teacherBtn.setOnClickListener(new View.OnClickListener() {
20     @Override
21     public void onClick(View view) { teacherActivity(); }
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