Experiment 2.1

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1. **Aim:**

   Create an Android app that uses Intent with button to create a page and passes values from one activity to another.

2. **Objective:**

   The objective of an Android app that uses Intent with a button to create a page and passes values from one activity to another could be to demonstrate and implement a simple data communication flow between different activities within an Android application. This type of app is commonly used to understand and showcase the concept of passing data between different screens or pages in Android.
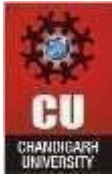
3. **Procedure:**

   System Requirements:
   The required tools to develop Android applications are open source and can be downloaded from the Web. Following is the list of software's we will need before start our Android application programming. Android Studio Java JDK 21.0.1 version

4. **Code: • MainActivity.kt**   package com.example.intent

   ```
   import android.content.Intent import
   android.os.Bundle import
   android.widget.Button import androidx.activity.ComponentActivi
   ty import
   ```

androidx.activity.compose.setConte nt
import
androidx.compose.ui.tooling.previe w.Preview
import
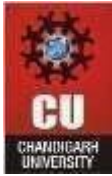com.example.intent.ui.theme.Intent
Theme

```kotlin
class MainActivity : ComponentActivity() {   override
    fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent">
    <Button android:id="@+id/btnNavigate"
        android:text="Navigate to Second Activity"
```

- ## activity_second.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    tools:context=".SecondActivity">
    <Button android:id="@+id/btnBackToMain"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Back to Main Activity"
        />
</androidx.constraintlayout.widget.ConstraintLayout>
```
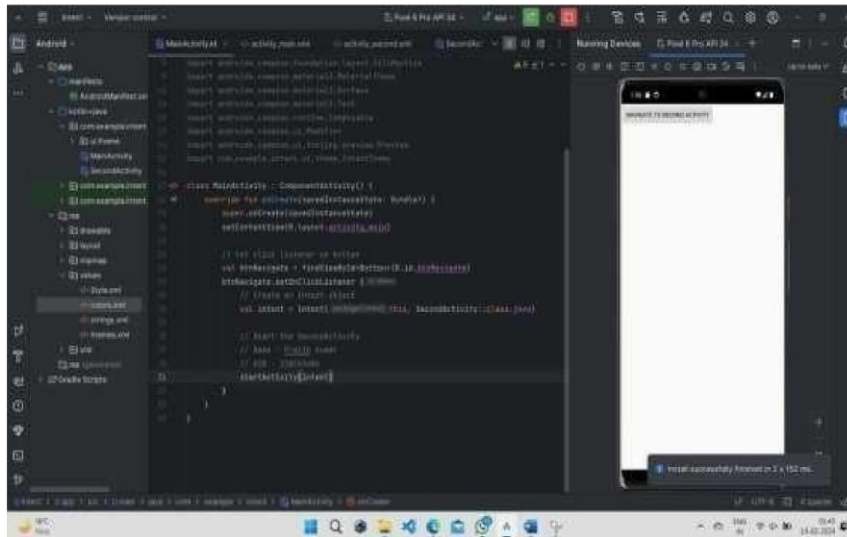
5.

Output:

> **Main Screen (MainActivity):**
> - When you open the app, you'll see the main screen.
> - On the main screen, there is a button labeled "Navigate to Second Activity".
> - Tap on this button to navigate to the second screen (SecondActivity).

6.

Learning Outcome:

- We have successful create the program.
- We have learn how to run the intent android studio.
- Now we can make intent application without any issue.
- SDK Components Downloaded.
- Android Studio IDE Launch. Tools Integration.
- SDK Manager Verification.
- Android Virtual Device (AVD) Setup (if performed). Code Editor Availability