**WEB AND MOBILE PROGRAMMING**

**Group: 22**

**ICP-8**

**Students:**

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**Task-1: Android Studio Login Page**

An empty activity project is created in android studio with java as a programming language.

By default, the login page is navigated to activity\_main.xml and I have the following predefined functions.

**TextView** function is used to display the navigation text.

**PlainText** function is used to get the user given inputs to the system.

**Button** function is used for execution.

**Toast** function is used as a popup it is similar to the alert function in Web.

**setContentView** is used to link the programming script java with the layout.xml page.

The intent is used for page Navigation.

Variables defining and declaring are done initially and the username and password given are set to private to use them in the declared class itself.

**findViewById** is used to link the XML file component with its defined id.

**getText**, **toString** is used to convert the given variable text to the string.

if-else condition is used for validation, In our case, we have to check for null inputs, Invalid credentials, and correct cases.

If condition check is passed then the page is navigated to the other page i.e; Home Page.

In the application, I have created a new functionality in which, If the user entered wrong credentials more than 5 times then the Login button gets disabled after the 5th attempt and this functionality is achieved using the **setEnabled** method, and the updated attempts left is displayed.

Viceversa i.e the navigation from the home page to the login page is done using intent and On the home page, a Text message is created with a welcome message.

**Code:**

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**OUTPUT:**

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