**Class Activity: Shared Preferences**

1. Create a new project with the following configuration,
   1. Empty Activity
   2. Language: Java
   3. Minimum API level: API 21: Android 5.0 (Lollipop)
2. Create the layout of your main activity according to the figure shown below.

Create a ConstraintLayout, with TextView and Button placed in the middle of the layout.

The TextView will display a message “Change colour scheme of your app!” and the button will toggle the background colour of the application.

**A screen shot of a phone

Description automatically generated**

1. Create a SharedPreferences object to store the background colour.
2. When the “Change Colour” button is clicked, the background colour of the application will change to #FFEED9. When the background colour is #FFEED9 and the button is clicked, the background colour of the application will change to #E0F4FF. Whenever the background colour is changed, update the SharedPreferences object with the new background colour.
3. **Expected output:**

**A screen shot of a phone

Description automatically generatedA screen shot of a phone

Description automatically generated**A screen shot of a phone

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