Name: Muhammad Usman  
Class: BSIT-M2 (2020-2024)

Roll No: BSIT-M2-20-48

Submitted to: Professor Jameel

Subject: Android Development

Assignment: 03

Topic: Shared Preferences

**Description**

1. **MainActivity.java:**
   * We will first declare private member variables, including an EditText (editTextName) for name input, a TextView (textView) for displaying the saved name, and a SharedPreferences (sharedPreferences) object for storing and retrieving data.
   * Two constants string variables are declared: PREF\_NAME ("MyPrefs") and KEY\_NAME ("name") to define the SharedPreferences file name and the key for saving/retrieving the name.
   * The onCreate() method is overridden and is the entry point for the activity.
   * The setContentView() method sets the activity's layout to the "activity\_main.xml" file and displays the content within it.
   * The findViewById() method is used to obtain references to the EditText, TextView, and Button views defined in the layout file by their unique IDs assigned to all elements.
   * The SharedPreferences object is initialized with the PREF\_NAME constant and MODE\_PRIVATE mode.
   * The saved name is retrieved from the SharedPreferences using the “KEY\_NAME” constant, and it is displayed in the TextView on the go.
   * An OnClickListener is specified on the Save button (buttonSave) to handle the click event.
   * Inside the onClick() method, the name entered in the EditText is stored and trimmed.
   * If the name is empty, a Toast message is displayed asking the user to enter a name. Otherwise, the name is saved in the SharedPreferences.
   * If the name is successfully saved, the TextView is updated to display the saved name, and a Toast message confirms the successful save. If an error occurs during the save operation, an error Toast is displayed.

1. **activity\_main.xml:**
   * The root element is a LinearLayout with vertical orientation and padding.
   * Inside the LinearLayout, there is a TextView for displaying a prompt, an EditText for name input, and a Button for saving.
   * Each view has an ID assigned to it for easy reference in the Java code.

This code demonstrates the use of SharedPreferences to store and retrieve data in an Android application.

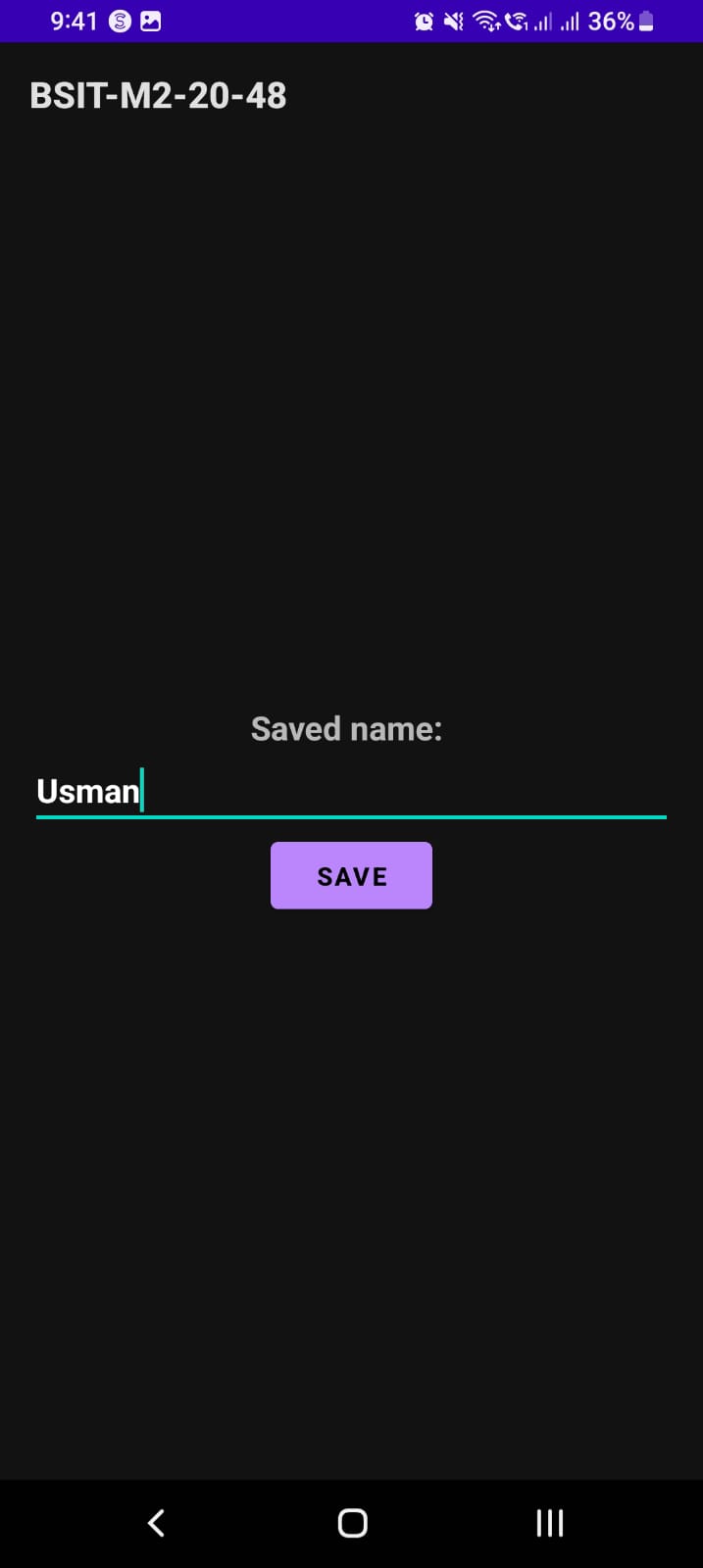
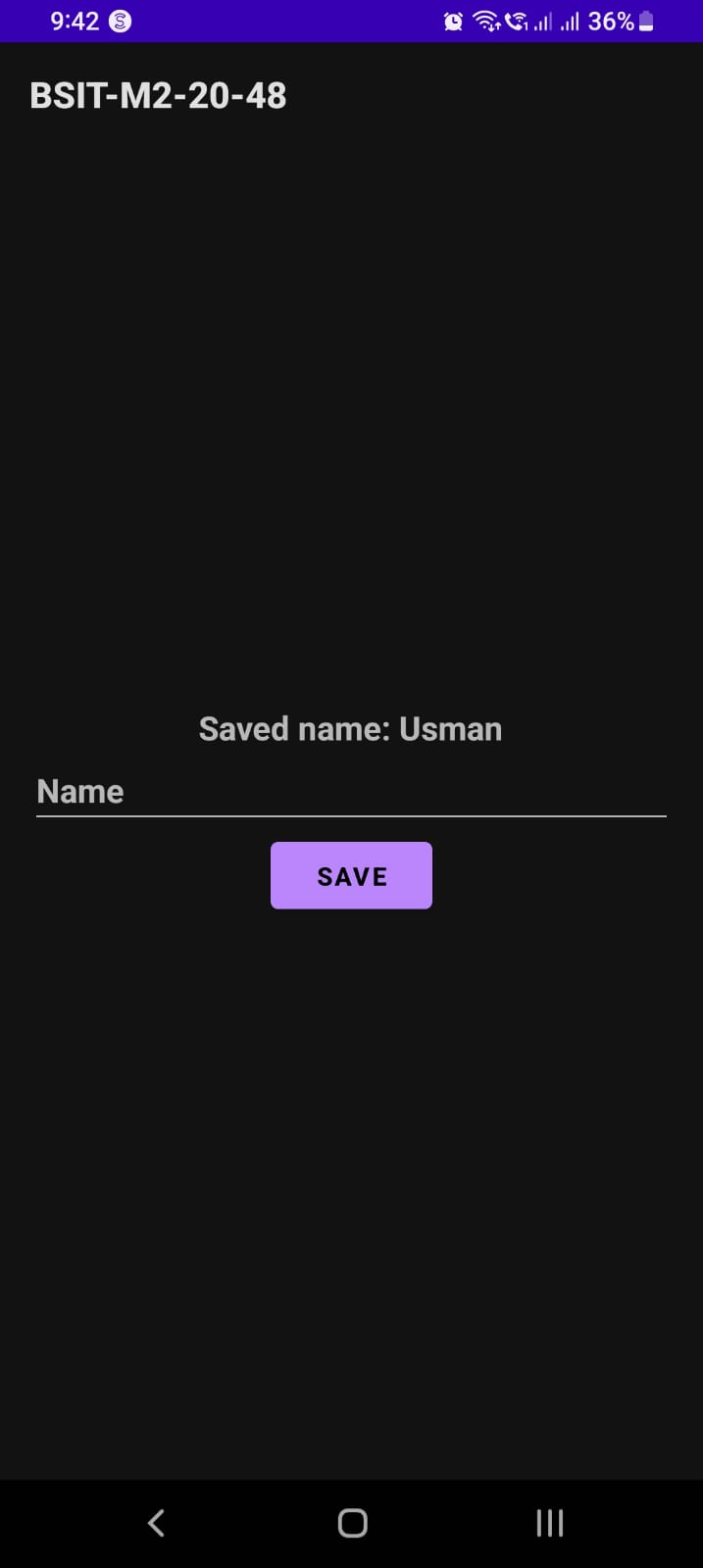
]

**Code**

Complete code can be found on my [GitHub](https://github.com/MatrixUsman/BSITM2/tree/main/Semester%206/Android%20Devlopment/Assignment_3/Shared%20Prefrences/BSITM22048).

Link to [APK](https://github.com/MatrixUsman/BSITM2/blob/main/Semester%206/Android%20Devlopment/Assignment_3/Shared%20Prefrences/BSIT-M2-20-48_Assignment_3_App_1.zip)

[Compressed Code zip](https://github.com/MatrixUsman/BSITM2/blob/main/Semester%206/Android%20Devlopment/Assignment_3/Shared%20Prefrences/Shared%20Pref.apk)

**Screenshots  
  
 **