**Instructions: VIT-AP UNIVERSITY, ANDHRA PRADESH**

**Lab Sheet 12 : SharedPreferences**

**Academic year:** 2022-2023  **Branch/ Class:** B.Tech

**Semester:** Fall  **Date: 30-11-2021**

**Faculty Name:** Dr. K. Rajesh  **School:** SCOPE

NAME: REGNO:

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**Instructions:**

* Uploaded the file with questions in MS TEAM
* Complete all the programs, put the code, input and output Screenshots in a single file.
* File name should be your **registerno**\_**lab12 eg 18ABC1234\_LAB12.doc**
* Upload it in assignment ->LAB12 in MS TEAM

Design an application that computes f(x) so that it can authenticate the (x,f(x)) pairs as (username, password), Where the username is x and the password is the f(x)=x2 +5 Note: X is a positive number. Assume that there are textview1 and textview 2 in the XML. Also, button b1, b2 are present to login and register. Read the text in textview1, If the user entered number in EditText(username), then user should enter square of the number in the EditText(password). When the user clicks register, save the data to sharedpreference. When the user enters username and password, and click on login, validate the login by matching the username in the sharedpreference and its square value in the password, restrict the login attempts to the maximum of three attempts, in case of any wrong credentials. When the user enters username and click read data, retrieve the password from the shared preferences and load it in the textview2.