**Self-Study Synopsis**

**Course: Introduction to Mobile Application Development (16G6E09)**

**Pedometer App**

**Problem Statement:**

To build an android application which helps the user track the number of steps walked (or distance) using the phone’s built-in hardware sensor. The application takes user information under the Settings tab after the app is started. The user information includes many things like Step Goal, Step Size (to calculate distance). The application should use the built-in pedometer sensor for calculating the steps walked by the user. The information about the current steps walked in a day is represented by a circular graph that shows the steps walked against the total goal (number of steps to be covered in a day). The overall objective of the application is to display the number of steps walked, average steps per day and distance. A split step counter option can also be enabled under the Options Tab. The app also has the extra feature of representing the total steps walked in the previous days by a bar chart. The app has a notification feature which displays the steps walked along with the goal steps remaining under the notifications tab of the mobile phone. The app uses the database feature to save the daily step data through a .CSV file which can be exported (backed up) and imported (restored) to use in another device.

**Scope:**

The scope of the application is to help a user track the number of steps and help lead a fit lifestyle by helping him achieve a daily step goal.

**Serving Domain:**

Daily Mobile Users, Fitness Enthusiasts, Sports, etc.