**Mobile Application Development Lab : Part 2**

**Exercise 4: Interactive Applications (date of Completion : 1.8.16)**

1. Some times in your application, if you wanted to ask the user about taking a decision between yes or no in response of any particular action taken by the user, by remaining in the same activity and without changing the screen. Demonstrates the use of AlertDialog in android for this scenario.
2. Develop an android app to provide suggestions automatically when the user is typing. The list of suggestions is displayed in a drop down menu from which the user can choose an item to replace the content of the edit box withthe use of AutoCompleteTextView class.
3. Develop an android app to control your ringer volume and ringer profile(silent,vibrate,loud e.t.c) in android using AudioManager class. With audio manage control, demonstrate MediaRecorder class to capture audio and then MediaPlayer class to play that recorded audio.
4. Develop an android app to convert your text into voice.
5. Develop an android app to provide navigation forward and backward between an application.
6. Develop an android app to demonstre the use of Typeface to handle CustomFont. It creates a basic application that displays a custom font that you specified in the fonts file.

**Exercise 5: Capturing picture & Animation (date of Completion : 8.8.16)**

1. Develop an android app to launch the existing camera application to capture an image and display the result in the form of bitmap.
2. Develop an android app to demonstrate Tweened Animation which takes some parameters such as start value , end value, size , time duration , rotation angle e.t.c and perform the required animation on that object captured via your camera application.

**Exercise 6 : Network Applications** **(date of Completion : 8.8.16)**

1. Develop an android application to connect to the internet or any other local network using ConnectivityManager class, Check connection status of the network like, connected, connecting, disconnected, suspended, and unknown, Then perform network operations after fetching the html of a website from a url using **HttpURLConnection** and **URL** class.
2. demonstration of BluetoothAdapter class to manipulate Bluetooth and show list of paired devices by the Bluetooth.
3. Develop an android application that sends sms messages.

**Exercise 7 : Data storage and retrieval applications.** **(date of**

**Completion: 22.8.16)**

1. Develop an android app to create a basic storage application that allows you to read and write from internal storage.
2. Develop an android app for demonstrating the use of SQLite Database which creates a basic contacts applications that allows insertion , deletion and modification of contacts.
3. Develop an android app to connect your android application with MYSQL database via PHP page which enables to access data in a web server on your android application. With this application, develop an app for department library management system.