

4/4 B.Tech - FIRST SEMESTER

IT7L1

MOBILE COMPUTING LAB

Credits: 2

Internal assessment: 25 marks

Lab:3 Periods/week

Semester end examination: 50 marks

Objectives:

- To develop applications for current and emerging mobile computing devices.
- To install ADT Bundle and SDK to run the mobile application.
- To implement and test the mobile applications.
- To Get knowledge on IDE used to develop various mobile applications

Outcomes:

Students will be able to

- Implement the operations perform on data using emulator.
- Develop MIDlet's which are used in mobile applications.
- Describe the components and structure of a mobile development frameworks.
- Develop .apk files(mobile apps) which is installed in android mobiles.

Exercise 1

Write a J2ME program to show how to change the font size and colour.

Exercise 2

Write a J2ME program which creates the following kind of menu

1. Cut
2. Copy
3. Paste
4. Delete
5. Select all
6. Unselect all

Exercise 3

Create a J2ME menu which has the following options (Event Handling)

1. Cut - can be on / off
2. Copy - can be on / off
3. Past - can be on / off
4. Delete - can be on / off
5. Select all - put all 4 options on
6. Unselect all - put all

Exercise 4

Create on MIDP application which examine. That a phone number, which a user has entered is in the given format (Input checking).

1. Area code should be one of the following 040,041,050,0400,044.
2. There should 6-8 numbers in telephone number (+ area code).

Exercise 5

Write an Android application program that displays Hello world using Terminal.

Exercise 6

Write an Android application program that displays Hello world using Eclipse.

Exercise 7

Write an Android application program that accepts a name from the user and displays the hello name to the user in response as output using Eclipse.

Exercise 8

Write an Android application program that demonstrates the following

1. Linear Layout
2. Relative Layout
3. Table Layout

Exercise 9

Write an Android application program that demonstrates the Grid Layout

Exercise 10

Write an Android application program that converts the temperature in Celsius to Fahrenheit.

Reference Books:

1. The Complete reference of J2ME, JAMES KEOGH, McGraw Hill
2. Professional Android 2 Application Development, Reto Meier, Wrox Publication.