**Curse: Mobile Application Development Lab**

**Lab Questions**

1. Learn the fundamentals of developing Android Applications, from project creation to installation on a physical device. Create an app to display a message (By using TextView control or Toast Method). Change the strings.xml file contents and check the results.
2. Create an app that explores the life-cycle of an activity.
3. Create an application to concat two strings and display it
4. Create an application to find the square of a number
5. Create an application for the below scenario.
   * Enter two numbers in the first activity and also should have a button
   * When click on the button, the two numbers entered should be added
   * If the sum is greater than 10, the result should be in Green color; otherwise it should be in Red color.
   * Convert the program to perform subtraction, multiplication and division.
6. Create an application to calculate the BMI of a person.
   * Enter the height and weight of a person
   * When click on the button, calculate the BMI
   * Print the status of the person (Over weight, Under weight, Normal or Obese).

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| **BMI** | **Weight Status** |
| Below 18.5 | Underweight |
| 18.5—24.9 | Normal |
| 25.0—29.9 | Overweight |
| 30.0 and Above | Obese |

1. Create an app to do the four function calculator using event listener (apply 3 Methods of event handling- Anonymous, deriving a class from listener)
2. Create an application to enter person name, age and gender ( use radio buttons) details. Check the status of the person and display it.
3. Create an application to select a course using spinner and display its fee details.
4. Create a page with buttons to link colleges in SAINTGITS. Use implicit intent concept to link the websites.
5. Create a login page to check the user credentials. If the user is authenticated then transfer the control toanother page with a welcome message to user.
6. Create an application to list the course names by using ListView. Display the options selected
7. Create an application to implement broadcast receiver to read content of message received.
8. Create an application to display list of options using option menu.
9. Create an application that will change the color of the screen, based on the selected options from the menu (popup menu).
10. Create an application to display a list of phone numbers and add a context to menu to make calls and send SMS to these numbers.
11. Create an application to add, search, delete, update and delete the employee details (SQLite)
12. Create an application to implement assets