

**MC211 JAVA PROGRAMMING LAB****Objectives of the Course:**

*Through this course, students will be able to get:*

- Familiarized with basics of java
  - Familiarized with the Java Applets
  - Understand the various java application like Servlets for implementing projects
1. Write a Java program that prompts the user for an integer and then prints out all prime numbers up to that. Integer.
  2. Write a Java program that checks whether a given string is a palindrome or not.  
Ex: MADAM is a palindrome.
  3. Write a Java program for sorting a given list of names in ascending order.
  4. Write a Java Program that reads a line of integers, and then displays each integer, and the sum of all the integers (use StringTokenizer class)
  5. Write a Java program that reads a file and displays a file and displays the file on the screen, with a line number before each line.
  6. Write a Java program that displays the number of characters, lines and words in a text file.
  7. Write a Java program for creating multiple threads
    - a) Using Thread class.
    - b) Using Runnable interface.
  8. Write a Java program that illustrates how run time polymorphism is achieved.
  9. Write a java program that illustrates the following
    - a) Creation of simple package.
    - b) Accessing a package.
    - c) Implementing interfaces.
  10. Write a java program that illustrates the following
    - a) Handling predefined exceptions.
    - b) Handling user defined exceptions
  11. APPLETs
    - Working with Frames and various controls.
    - Working with Dialogs and Menus.
    - Working with Panel and Layout.
    - Incorporating Graphics.
    - Working with colors and fonts

12. **SWINGS**

Jpanel- JFrame – Jtoolbar—JwindowFramework  
Implement the “Hello World” program using servlets.

13. Write a servlet program using cookies and SessionTracking.

**Reference Books:**

1. Java How to Program, 5<sup>th</sup> Edition, Dietel & Dietel, Pearson Education