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**Bachelor of computer Applications(BCA)**  
**Internal Assignmetns(June 2009)**  
**Subject :Java Practical Assignments**

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**Assignment 1**

**Marks 20**

1. Wriht a program to print triangle in following format  
1  
2 3 2  
3 4 5 4 3  
4 5 6 7 6 5 4  
5 6 7 8 9 8 7 6 5
2. Write a program to accept string from user and find out Statistics  
No of Digits, No of lowercase letters, No of uppercase letters, No of total characters, No of total words, No of Symbols.
3. Write a program to accept string from user and find out Vowel, Blank and non Blank Characters.
4. Wriht an applet in which a small circle is drowns at the center. When we press L or B key Circle must become bigger. For every press the size must increase slightly. When we press S or D key the Size must decrease.
5. Wriht a program to create an applet to show the working of a Calculator.

**Assignment 2**

**Marks 20**

- 1 Write a program to create a File Dialog accepts a file from it.
- 2 Write a program to create a frame with title free hand drawing. When we drag the mouse, the path of the mouse pointer must be drawn as arc or line.
- 3 Write a program using a swing, in which Student Roll No, Name, Address and his email-Id is accepted from the GUI & stored it in database with the functionality Add, Modify & Delete.
- 4 Write down a program to accept an integer array and reverse the contents in another array of integers.
- 5 Write down a program to accept a string from the user and check if it is a palindrome.

**Assignment 3**

**Marks 20**

1. Write down a program to accept parameters from the command line. The number of parameters entered by the user must not be fixed. The program should take care of any number of parameters entered by the user.
2. Write down a program to accept a 3X3 matrix and display the transpose of the matrix.
3. Write down an application to display a window with the various GUI components available in the *awt* package.
4. Write down a program of your choice to demonstrate the use of various layout managers. (Every component must be used at least once.)
5. Write down an applet to demonstrate use of two or more threads execute simultaneously.