

## **MODULE 1**

1. Write a program in java to accept and display employee id, employee name and salary through keyboard and StringTokenizer object.

2. Create a Java class called Student with the following details as variables within it.

i) usn

(ii) name

(iii) branch

(iv) phone

Create n student objects and print the usn, name, branch, and phone of these objects with suitable headings.

## **MODULE 2**

3. Write a Java program to facilitate the multilevel inheritance. (Also demonstrate the use of constructor in multilevel inheritance)

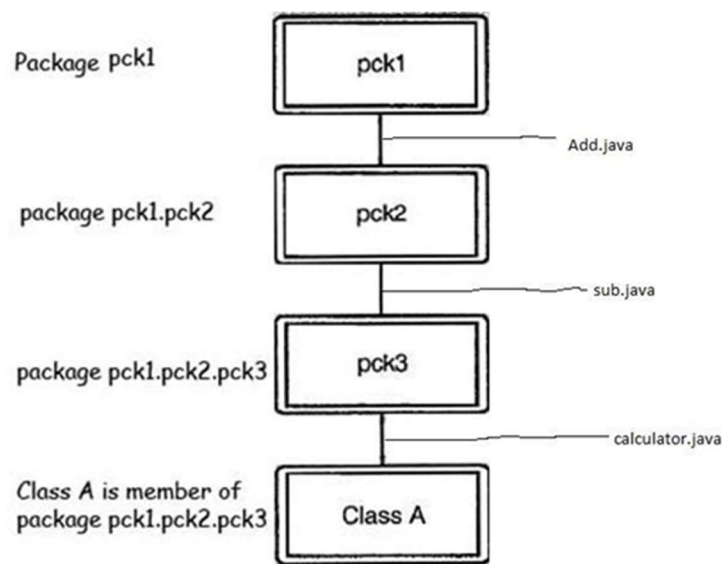
4. Write a Java Program to demonstrate the concept of hierarchical inheritance. (implement this program with super keyword, final keyword, constructor and method overriding concept)

5. Implement the concept of multiple inheritance in Java

6. Write java program to check all the available access specifier with package and try to prove that the below given table is true.

Location	Private	No modifier	Protected	Public
Same class	Yes	Yes	Yes	Yes
Same package and also a subclass	No	Yes	Yes	Yes
Same package but not a subclass	No	Yes	Yes	Yes
Different package but a subclass	No	No	Yes	Yes
Different package but not a subclass	No	No	No	Yes

7. Write a java program to create the hierarchy like below figure to perform addition and subtraction operation.



8. Write a different java program for generating following types of exception

- NullPointerException
- ArrayIndexOutOfBoundsException
- ArithmeticException
- NumberFormatException
- StringIndexOutOfBoundsException

9. Write program in java to demonstrate the use of throw and throws in exception.

10. Write a program to create threads and perform the following operation
- Get the current thread name
  - Set the highest priority to the newly created thread
  - Pause a thread for 2.5 seconds.
  - Check whether the thread is in running state or not.
  - Verify your newly created thread must be completed first before your main thread is completed.
11. Assume that only one copy of the book is available in Amazon and four customers are trying to place the order for book at the same time. Write a java program using threads which prints book confirmed for one person and “out of stock” for others.
12. Write a java program that implements a multi-thread application that has three threads. First thread generates random integer every 1 second and if the value is even, second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of cube of the number.

### **MODULE-3**

13. Write java program to demonstrate the following String functions by reading the strings from the keyboard
- Find the number of characters in the given string
  - Check whether the string is null or not
  - Retrieve a character from the given string
  - compare two strings by ignoring the cases
  - Join the three strings
  - Convert the uppercase/lowercase of the given string
  - Replace all occurrences of the specified CharSequence
  - Remove beginning and ending spaces of this string.
  - Split the given string
14. Write a java program that displays the number of characters, lines and words in a given file
15. Write a program in java to efficiently read data from the keyboard and write the same data into the file.

16. Write a program that implements the client/server application. The client sends the data to the server; the server receives the data, uses it to produce a result and then sends the result back to the client. The client displays the result on the console.

## MODULE-4

17. Create the below registration form using forms in HTML

---

Name

Email

Age

Country

Password

Resume  No file chosen

Hobbies ☐ Singing ☐ Drawing ☐ Traveling

Gender ☐ Female ☐ Male

City

Address

18. Create an Indian tri-color flag using frames in CSS (one portion orange, middle portion white, third portion green and a rotating wheel in the middle. Divide the frames horizontally.

19. Design the below CSS Box model using HTML and different CSS selector properties

---

**CSS Box-Model property**



---

## **MODULE-5**

20 .Write a program to create Chess board in PHP using for loop

21. Write a PHP script to display the contents of an employee table(empno, ename, esal) based on empno accepted through html document

22. Write a PHP script to accept employee number, name and salary from HTML document and display them. also insert the same into employee table.