1. Write a java program to accept few numbers through command line arguments from user

And display the addition. If no numbers are given, then display appropriate message to user

1. Accept two 3X3 matrix to store integers and
   1. display sum column wise,
   2. row wise
   3. total sum
   4. add 2 matrices
   5. transpose matrix
   6. print diagonal elements
   7. check whether symmetric
   8. exit
2. Write a program to maintain city name and list of commonly found trees in each city

Perform following operation

* 1. Add new city
  2. Delete city and trees list
  3. Delete a tree from the given city
  4. List cities which contains a given tree----- e.g neem ----- display all cities that contains neem tree
  5. Add a tree in existing citi’s tree list
  6. exit

1. Write a program to store employee details in a file using serialization

For each employee store empid,name,sal

And perform following operation

* 1. Add new employee
  2. Delete
  3. Modify
  4. Display all
  5. Display by id
  6. Display by name
  7. Exit

Note: set aflag to true if any record is added

set mflag true if any record is modified or deleted

If mflag is true then overwrite the file otherwise if aflag is true then append the contents in the file.

Use any collection of your choice to store memory copy of the file.(e.g ArrayList/HashSet/hashMap)

1. Threading Assignment

Design a file to store strings in a file

One string on each line

Write a multithreaded program to accept 5 strings from user and search whether it is in the file

If found display “found” otherwise display not found.

1. Write a producer consumer program.

Producer will write 3 numbers and consumer will read 3 numbers and display factorial of each number.

1. Write a multithreaded program to perform the tasks for ABC bank
2. Add new Account
3. Check balance
4. Withdraw
5. Deposite
6. Transfer fund
7. Exit

Note : create a HashMap to store accounts- store 6 accounts in HashMap before displaying the menu.(Initialize the HashMap in static block)

Note: Static methods can access only static member and cannot access non static members

Non static methods can access static as well as non static members.

1. Socket programming

Write a socket communication program

1.Client will send a number to server and server will send the factorial of the number to client

2. Server has a file containing word and meaning, 1 word per line

accept a word from client and send the meaning to client.

If word not found then send “OOPs I don’t know the meaning.”