Assignment – 8

1. Initialize and print all elements of a 2D array.
2. Employee class with fields (empno, empname, dept) where dept is object of department class with fields (deptId, deptname) Write a program to create array of 3 employees each employee will have different department.
3. There is Student class { int id , string name ,Boolean isspecial , Course c } . Course {String cname , int fees } Assume that there is array of 10 student objects. Write a program to set isspecial to be true if course fee of that student is more than 50000.
4. Create an array of Theatre to maintain data in sorted order of Movie Rating
   Theatre (Theatreid, Theatrename, location, Movie)
   Movie (Movieid, Moviename, Rating).
5. Pass a 2D array to function and access all its elements.
6. WAP to find sum of main diagonal elements of a matrix.
7. WAP to find sum of each column of a matrix.
8. WAP to create transpose of a matrix.
9. WAP to print maximum in row
   E.g. arr[][] ={{22, 31, 9}, {12, 25, 16}} output is - 31 and 25.
10. WAP to print minimum in columns
    E.g. arr[][]={{22, 31, 9}, {12, 5,16}, {34, 42, 2}}
    Output is - 12, 5, and 2.
11. Array is a two dimensional array as follows.
    Arr = {{1, 2, 3, 4}, {5, 6, 7, 8}}
    Create a new array ArrCopy which should be as follows

ArrCopy = {{4, 3, 2, 1} , { 8,7,6,5}}

12. WAP to print the employees from Employee[] array who has same salary (Create Employee class which has 3 attributes id, name, salary and add employee objects to your array)
13. Create array of students, student has (roll, name, age, marks). Print only Those students who have marks more than 60 and age is less than 15.
14. Sort array of students in ascending order of student names.
    E.g. amit must appear before robin
15. Write Java Program to store 5 Student type objects in continuous memory blocks. Each Student will have roll, name, and marks.
    a. Sort these objects in ascending order of marks, write a method sort Records in Student with Student type array as parameter.
    b. Write show Records Method in Student class to show all records by using for each loop.