**Exercise 4  
Employee Management System**

Employee.java:

**package** ems;

**public** **class** Employee {

**private** String employeeId;

**private** String name;

**private** String position;

**private** **double** salary;

**public** Employee(String employeeId, String name, String position, **double** salary) {

**this**.employeeId = employeeId;

**this**.name = name;

**this**.position = position;

**this**.salary = salary;

}

**public** String getEmployeeId() {

**return** employeeId;

}

**public** String getName() {

**return** name;

}

**public** String getPosition() {

**return** position;

}

**public** **double** getSalary() {

**return** salary;

}

@Override

**public** String toString()

{

**return** employeeId+" | "+name+" | "+position+" | "+salary;

}

}

EmployeeManager.java:

**package** ems;

**public** **class** EmployeeManager {

**private** **static** **final** **int** ***MAX***=100;

**private** Employee[] employees=**new** Employee[***MAX***];

**private** **int** size;

**public** **boolean** add(Employee e)

{

**if**(size==***MAX***)**return** **false**;

employees[size++]=e;

**return** **true**;

}

**public** Employee search(String id)

{

**for**(**int** i=0;i<size;i++)

{

**if**(employees[i].getEmployeeId().equals(id))

{

**return** employees[i];

}

}

**return** **null**;

}

**public** **void** traverse()

{

**for**(**int** i=0;i<size;i++)

{

System.***out***.println(employees[i]);

}

}

**public** **boolean** delete(String id)

{

**for**(**int** i=0;i<size;i++)

{

**if**(employees[i].getEmployeeId().equals(id))

{

**for**(**int** j=i;j<size-1;j++)

{

employees[j]=employees[j+1];

}

employees[--size]=**null**;

**return** **true**;

}

}

**return** **false**;

}

}

EmployeeTest.java:

**package** ems;

**public** **class** EmployeeTest {

**public** **static** **void** main(String[] args)

{

EmployeeManager mgs=**new** EmployeeManager();

mgs.add(**new** Employee("E11","Abi","Developer",45000));

mgs.add(**new** Employee("E12","Charu","Tester",50000));

mgs.add(**new** Employee("E13","Arul","Manager",65000));

System.***out***.println("\n All Employess ");

mgs.traverse();

System.***out***.println("\n Search E12---> "+mgs.search("E12"));

System.***out***.println("\n Delete E13---> "+(mgs.delete("E13") ? "Done" : "Not Found"));

System.***out***.println("\n After Deletion ");

mgs.traverse();

}

}

**Output:**

