**Question 1**

**package** genericsAssignment;

**import** java.util.HashSet;

**import** java.util.Set;

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

**int** empId;

String empName;

**int** salary;

String department;

**public** Employee(**int** empId, String empName, **int** salary, String department) {

**super**();

**this**.empId = empId;

**this**.empName = empName;

**this**.salary = salary;

**this**.department = department;

}

**public** **int** getEmpId() {

**return** empId;

}

**public** **void** setEmpId(**int** empId) {

**this**.empId = empId;

}

**public** String getEmpName() {

**return** empName;

}

**public** **void** setEmpName(String empName) {

**this**.empName = empName;

}

**public** **int** getSalary() {

**return** salary;

}

**public** **void** setSalary(**int** salary) {

**this**.salary = salary;

}

**public** String getDepartment() {

**return** department;

}

**public** **void** setDepartment(String department) {

**this**.department = department;

}

@Override

**public** String toString() {

**return** "Employee [empId=" + empId + ", empName=" + empName + ", salary=" + salary + ", department=" + department

+ "]";

}

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

Set<Employee> employee=**new** HashSet<>();

employee.add(**new** Employee(1,"Dany",25000,"Network"));

employee.add(**new** Employee(2,"Tony",20000,"Cloud"));

employee.add(**new** Employee(3,"Raj",35000,"DataScience"));

employee.add(**new** Employee(1,"Ram",30000,"Network"));

**for**(Employee e:employee)

System.***out***.println(e);

}

}

**Question 2**

**package** genericsAssignment;

**import** java.util.\*;

**public** **class** HashMapExample {

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

Map<Integer,Double> map = **new** HashMap<Integer , Double>();

map.put(1, 2.15);

map.put(2, 3.15);

map.put(3, 4.15);

map.put(4, 5.15);

map.put(5, 6.15);

map.put(6, 7.15);

map.put(7, 8.15);

map.put(8, 9.15);

map.put(9, 10.15);

map.put(10, 11.15);

System.***out***.println(map);

}

}

**Question 3**

**package** genericsAssignment;

**import** java.util.\*;

**public** **class** Exchange {

**public** **static** **final** <T> **void** swap (T[] a, **int** i, **int** j) {

T t = a[i];

a[i] = a[j];

a[j] = t;

}

**public** **static** **final** <T> **void** swap (List<T> l, **int** i, **int** j) {

Collections.<T>*swap*(l, i, j);

}

**private** **static** **void** test() {

String [] a = {"Hello", "Goodbye"};

*swap*(a, 0, 1);

System.***out***.println("a:"+Arrays.*toString*(a));

List<String> l = **new** ArrayList<String>(Arrays.*asList*(a));

*swap*(l, 0, 1);

System.***out***.println("l:"+l);

}

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

*test*();

}

}