**Generics Assignment**

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

**class** EmployeeHash

{

**int** id, salary;

String name, department;

**public** EmployeeHash(**int** id, **int** salary, String name, String department)

{

**this**.id = id;

**this**.salary = salary;

**this**.name = name;

**this**.department = department;

}

**public** **int** getId()

{

**return** id;

}

**public** **void** setId(**int** id)

{

**this**.id = id;

}

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

{

**return** salary;

}

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

{

**this**.salary = salary;

}

**public** String getName()

{

**return** name;

}

**public** **void** setName(String name)

{

**this**.name = name;

}

**public** String getDepartment()

{

**return** department;

}

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

{

**this**.department = department;

}

**public** **void** displaydetails()

{

System.***out***.println("Employee Id : "+getId()+" Salary: "+getSalary()+" Name: "+getName()+" Department: "+getDepartment());

}

}

**public** **class** Employee

{

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

{

HashSet<EmployeeHash> set = **new** HashSet<EmployeeHash>();

//Creating Employees

EmployeeHash e1 = **new** EmployeeHash(102, 20000, "Sasha", "IT");

EmployeeHash e2 = **new** EmployeeHash(103, 50000, "Samuel", "HR");

EmployeeHash e3 = **new** EmployeeHash(104, 100000, "Rohan", "Development");

EmployeeHash e4 = **new** EmployeeHash(105, 400000, "Kabir", "Testing");

set.add(e1);

set.add(e2);

set.add(e3);

set.add(e4);

e1.displaydetails();

e2.displaydetails();

e3.displaydetails();

e4.displaydetails();

}

}

1. **import** java.util.HashMap;

**import** java.util.Map;

**import** java.util.Set;

**public** **class** HashMapQ

{

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

{

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

map.put(10, 10.9);

map.put(20, 20.9);

map.put(30, 30.9);

map.put(40, 40.9);

map.put(50, 50.9);

map.put(60, 60.9);

map.put(70, 70.9);

map.put(80, 80.9);

map.put(90, 90.9);

map.put(100, 100.9);

Set <Integer> keys = map.keySet();

**for** (Integer key : keys)

{

System.***out***.println(key+ " " +map.get(key));

}

}

}

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

**public** **class** ExchangeElements

{

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

{

String [] arr1 = {"Hello","World","Happy","Coding"};

System.***out***.println("Before Exchanging the Elements in the Array: "+Arrays.*toString*(arr1));

List<String> a = Arrays.*asList*(arr1);

Collections.*swap*(a,0,2);

System.***out***.println("After Exchanging the Elements in the Array: "+Arrays.*toString*(arr1));

}

}

1. **import** java.util.HashMap;

**import** java.util.Map;

**public** **class** Pair

{

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

{

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

map.put("1", "Hello");

map.put("2", "Everyone!");

map.put("3", "This");

map.put("4", "Is");

map.put("5", "Priyanshi");

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

}

}

1. **import** java.util.HashMap;

**import** java.util.Map;

**import** java.util.Date;

**public** **class** Pair

{

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

{

Map <String, Date> map = **new** HashMap<>();

map.put("Today is ", **new** java.util.Date());

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

}

}