GENERICS CODES

1.HASHSET EMPOLYEE

import java.util.\*;

class Employee

{

int id,salary;

String name,department;

public Employee(int id,String name,String department,int salary)

{

this.id=id;

this.name=name;

this.department=department;

this.salary=salary;

}

public void detailsDisplay()

{

System.out.println("Emp id:"+id);

System.out.println("Emp name:"+name);

System.out.println("Emp department:"+department);

System.out.println("Emp salary:"+salary);

}

}

public class genOne

{

public static void main(String[] args)

{

Employee E1=new Employee(1,"Glenn","IT",500000);

Employee E2=new Employee(2,"Sam","HR",400000);

HashSet<Employee> emp=new HashSet<>();

emp.add(E1);

emp.add(E2);

Iterator<Employee> iterate=emp.iterator();

while(iterate.hasNext())

{

iterate.next().detailsDisplay();

System.out.println();

}

}

}

2. import java.util.\*;

public class genTwo

{

public static void main(String[] args)

{

HashMap<Integer,Double> m=new HashMap<>();

m.put(1, 10.0);

m.put(2, 20.0);

m.put(3, 30.0);

m.put(4, 40.0);

m.put(5, 50.0);

m.put(6, 60.0);

m.put(7, 70.0);

m.put(8, 80.0);

m.put(9, 90.0);

m.put(10, 100.0);

System.out.println("Size of stored data:"+m.size());

System.out.println("Data stored in Hashmap:"+m);

}}

3.

public class genThree

{

public static void main(String args[])

{

Integer arr[]= {10,20};

System.out.println("Before Swapping:"+arr[0]+" "+arr[1]);

swapnum(arr);

}

public static <S> void swapnum(S[] arr)

{

S temp=arr[1];

arr[1]=arr[0];

arr[0]=temp;

System.out.println("After Swapping:"+arr[0]+" "+arr[1]);

}

}

4.

public class Pair <k,v>

{

private k key;

private v value;

public Pair(k key,v value)

{

super();

this.key=key;

this.value=value;

}

public<k,v> String show()

{

return key+" "+value;

}

}

public class genFour

{

public static void main(String[] args)

{

Pair<String,String> obj1=new Pair<String,String>("1","Mrunal");

Pair<String,java.util.Date> obj2=new Pair<>("Today is ",new java.util.Date());

System.out.println("Key-Value:"+obj1.show());

System.out.println("Key-Date:"+obj2.show());

}

}