

GENERIC CODES

1.HASHSET EMPLOYEE

```
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());
    }
}
```