In Java you can copy an object in several ways, among them, copy constructor and the clone method are the mostly used.

**Note:** Person p2 = p1;//only refernce paased,if we change value in one, the other is affected:

## 1. Using copy constructor

Java does support for copy constructors but **you need to define them yourself.**

public class Student {

   private String name;

   private int age;

   public Student(String name, int age){

      this.name = name;

      this.age = age;

   }

   public Student(Student std)

{

      this.name = std.name;

      this.age = std.age;

   }

   public void displayData(){

      System.out.println("Name : "+this.name);

      System.out.println("Age : "+this.age);

   }

   public static void main(String[] args) {

      Scanner sc =new Scanner(System.in);

      System.out.println("Enter your name ");

      String name = sc.next();

      System.out.println("Enter your age ");

      int age = sc.nextInt();

      Student std = new Student(name, age);

      System.out.println("Contents of the original object");

      std.displayData();

      System.out.println("Contents of the copied object");

      Student copyOfStd = new Student(std);

      copyOfStd.displayData();

   }

}

**Output**

Enter your name

Krishna

Enter your age

20

Contents of the original object

Name : Krishna

Age : 20

Contents of the copied object

Name : Krishna

Age : 20

## 2.Using the clone method

The **clone()** method of the class **java.lang.Object** accepts an object as a parameter, creates and returns a copy of it.

public class CloneExample implements Cloneable {

   private String name;

   private int age;

   public CloneExample(String name, int age){

      this.name = name;

      this.age = age;

   }

   public void displayData(){

      System.out.println("Name : "+this.name);

      System.out.println("Age : "+this.age);

   }

   public static void main(String[] args) throws CloneNotSupportedException {

      Scanner sc =new Scanner(System.in);

      System.out.println("Enter your name ");

      String name = sc.next();

      System.out.println("Enter your age ");

      int age = sc.nextInt();

      CloneExample std = new CloneExample(name, age);

      System.out.println("Contents of the original object");

      std.displayData();

      System.out.println("Contents of the copied object");

      CloneExample copiedStd = (CloneExample) std.clone();

      copiedStd.displayData();

   }

}

## Output

Enter your name

Krishna

Enter your age

20

Contents of the original object

Name : Krishna

Age : 20

Contents of the copied object

Name : Krishna

Age : 20