src\inheritance.ts

```
1 // *************
   //* Inheritance in TS
   // **************
 5
   //* Inheritance allows a class to reuse the functionality of an existing class without
   rewriting it.
   //? Inheritance is a mechanism in which one class acquires the property of another
 6
   class. For example, a child inherits the traits of his/her parents.
8
   class Persons {
9
     name: string;
10
     age: number;
     hobbies: string[];
11
12
     constructor(name: string, age: number, hobbies: string[]) {
13
14
       this.name = name;
       this.age = age;
15
       this.hobbies = hobbies;
16
17
     }
18
19
     introduce(): string {
       return `Hi, I'm ${this.name} and I'm ${
20
21
         this.age
       } years old. I love ${this.hobbies.join(",")}.`;
22
23
24
25
   class Students extends Persons {
26
     grade: number;
27
     constructor(name: string, age: number, hobbies: string[], grade: number) {
28
29
        super(name, age, hobbies);
30
       this.grade = grade;
31
32
33
     introduce(): string {
       return ` ${super.introduce()} .I am in grade ${this.grade}`;
34
35
   }
36
37
   const persons1: Persons = new Persons("vinod", 12, ["reading", "painting"]);
   const persons2: Persons = new Persons("thapa", 15, ["coding", "sports"]);
39
40
   const students1: Persons = new Students(
      "bahadur",
41
42
     25.
     ["coding", "sports"],
43
44
     10
   );
45
46
   console.log(students1.introduce());
47
48
```