import java.util.ArrayList;

import java.util.List;

import java.util.function.Function;

public class FunctionDemo {

public static void main(String[] args) {

List<Student> list = new ArrayList();

list.add(new Student("Ram",20));

list.add(new Student("Shyam",22));

list.add(new Student("Kabir",18));

// Simple use of function

for(Student st: list){

System.out.println(st.customShow(s->s.name+": "+s.name));

}

//Style one to declare function

Function<Student,String> styleOne = s->{

String result = "Name:"+s.name +" and Age:"+s.age;

return result;

};

//Style two to declare function

Function<Student,String> styleTwo = s->

"Name:"+s.name +" and Age:"+s.age;

System.out.println("--print value by style one--");

//print the values of list using stle one function

for(Student st: list){

System.out.println(st.customShow(styleOne));

}

System.out.println("--print value by style two--");

//print the values of list using style two function

for(Student st: list){

System.out.println(st.customShow(styleTwo));

}

}

}

public class Student {

public String name;

public int age;

public Student(String name,int age){

this.name = name;

this.age = age;

}

public String customShow(Function<Student,String> fun){

return fun.apply(this);

}

}