```
/***
1
    * Name: Zongxu Li(Victor)
2
3
    * Student Number: T00521219
    * Assignment Number: 2
4
5
    * Due Date: Oct 4, 2022
    * Program description: This program is testing for inheritance, which we have
   drive class named Tester,
7
    * and parents class named: Person and child staff. testing equal method, array and
   changing variable.
8
9
   public class Tester //This is driver class, testing all the methods.
10
11
12
        public static void main(String[] args)
13
14
              Person p1 = new Person(); //Prepare for the equal method.
              Person p2 = new Person("Steve", "S1230000");
1.5
16
17
              Staff stf1 = new Staff();
              Staff stf2 = new Staff("Paul", "SPC002211", "Security Guard");
18
19
20
              System.out.println("showing inital child class student values set by
   default and parameterized constructors");
21
              System.out.println(stf1);
22
              System.out.println("Set up value for parameterized value to
2.3
   constructor");
24
              System.out.println(stf2);
25
              System.out.println();
26
27
              stfl.setName("Tom");
28
              stfl.setId("SPC456511");
              stf1.setJobtitle("Admission");
29
30
31
              System.out.println("Now testing on the get method for getName, getId,
   getJobtitle");
32
              stf1.getName();
33
              System.out.println(stf1.getName());
34
              stf1.getId();
3.5
              System.out.println(stf1.getId());
36
              stf1.getJobtitle();
37
              System.out.println(stf1.getJobtitle());
38
39
              System.out.println("End of testing get method for Student class");
40
              System.out.println();
41
              System.out.println("Testing about setName, setId, setJobtitle and set
42
   method");
43
              System.out.println(stf1);
44
              System.out.println(stf2);
4.5
              System.out.println();
46
47
              System.out.println("Testing person1 compare to person1, make sure the
   method is working."); //Testing equal class.
48
              System.out.println(p1.equals(p1));
              System.out.println("Testing person1 compare to person2. They have
49
   different objects");
50
              System.out.println(p1.equals(p2));
51
52
              System.out.println();
              System.out.println("Creating arries for Student, Faculty, Staff");
53
              Student s1 = new Student("Tommy", "T0000212", "BBA", 3.\overline{5}); //Writing two
54
   objects for Student, Faculty, and Staff. Prepare for array.

Student s2 = new Student("Jim", "J0000313", "BCS", 2.7);
5.5
             56
57
58
59
              Person[] people = {s1, s2, f1, f2, st1, st2};
60
              for (int i=0; i<people.length; i++) //Creating a for loop to print all
61
                         C:\Users\Vic\AppData\Local\Temp\Tester.java
```

```
the values stores in array.
62
                      System.out.println(people[i]); //print i[0], then i[1]...etc, i add
63
    one index at each time.
64
                System.out.println();
65
66
                System.out.println("Changing the value of s2(Jim, J0000313, BCS, 2.7)
67
    GPA");
                ((Student)people[1]).setGpa(2.0);
System.out.println(s2);
System.out.println("After change GPA, Jim GPA changed from 2.7 to 2.0");
68
69
70
71
72
          }
73
74
75 }
```