

Assessment subr
X



(<https://swayam.gov.in>)



(https://swayam.gov.in/nc_details/NPTEL)

chandan__@outlook.com ▾

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Programming in Java (course)**

[Announcements \(announcements\)](#) [About the Course \(preview\)](#) [Ask a Question \(forum\)](#)

[Progress \(student/home\)](#) [Mentor \(student/mentor\)](#)

Unit 5 - Week 3 :

Thank you for taking the Assignment 3.

Course
outline

How does an
NPTEL online
course work?

Week 0 :
Assignment 0

Week 1 :

Week 2 :

Week 3 :

- ☐ Lecture 11 :
Java Static
Scope Rule
(unit?
unit=31&lesson=32)
- ☐ Lecture 12 :
Demonstration-
V (unit?
unit=31&lesson=33)
- ☐ Lecture 13 :
Inheritance
(unit?
unit=31&lesson=34)
- ☐ Lecture 14 :
Demonstration-
VI (unit?
unit=31&lesson=35)
- ☐ Lecture 15 :
Information

Assignment 3

Your last recorded submission was on 2020-10-07, 11:41 IST Due date: 2020-10-07, 23:59 IST.

1)

1 point

Which of following statement(s) is/are true?

- a. Instance methods can access instance variables and instance methods directly.
- b. Instance methods cannot access class variables and class methods directly.
- c. Class methods can access class variables and class methods directly.
- d. Class methods cannot access instance variables or instance methods directly—they must use an object reference.

- ☒ a.
- ☐ b.
- ☒ c.
- ☒ d.

2)

1 point

Hiding (unit?
Assessment submitted
unit=31&lesson=36)
X

● Quiz :

Assignment 3
(assessment?
name=157)

- ☐ Java Week 3: Q1
(/noc20_cs58/progassign
name=129)
- ☐ Java Week 3: Q2
(/noc20_cs58/progassign
name=130)
- ☐ Java Week 3: Q3
(/noc20_cs58/progassign
name=131)
- ☐ Java Week 3: Q4
(/noc20_cs58/progassign
name=132)
- ☐ Java Week 3: Q5
(/noc20_cs58/progassign
name=133)
- ☐ Feedback For
Week 3 (unit?
unit=31&lesson=37)

Week 4 :

Solution

DOWNLOAD
VIDEOS

Text Transcripts

```
public class Question
{
    public static int x = 7;
    public static void main(String[] args) {
        Question a = new Question ();
        Question b = new Question ();
        a.x = 1;
        b.x = 2;
        System.out.println(a.x+b.x+Question.x);
    }
}
```

What is the output of the above program?

- a. 6
- b. 10
- c. 21
- d. runtime error

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

3)

1 point

Which of the following is called when a method having the same name as that of the class is defined?

- a. abstract
- b. this
- c. final
- d. constructor

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

4)

1 point

Hiding internal data from the outside world, and accessing it only through publicly exposed methods is known as data _____

- a. Polymorphism
- b. Encapsulation.
- c. Inheritance.
- d. Duplication.

Assessment submitted.
X

- ☐ a.
☒ b.
☐ c.
☐ d.

5)

1 point

Consider the following piece of code in Java.

```
class B {
    protected int method(int a, int b) {
        return 0;
    }
}
```

Which of the following method(s) is/are declaration is/are **not** valid in a class that extends class B?

- a. `public int method(int a, int b) {
 return 0;
}`
b. `private int method(int a, int b) {
 return 0;
}`
c. `static protected int method(int a, int b) {
 return 0;
}`
d. `public short method(int a, int b) {
 return 0;
}`

- ☐ a.
☒ b.
☒ c.
☒ d.

6)

1 point

Which of the following statement(s) is/are true?

- a. A final method cannot be overridden in a subclass.
b. The advantage of private static methods is that they can be reused later if you need to reinitialize the class variable.
c. Class methods cannot use this keyword as there is no instance for this to refer to.
d. A final method can be overridden in a subclass.

- ☒ a.
☒ b.
☒ c.
☐ d.

Assessment submitted.
X

7) **Advantage(s) of inheritance in Java programming is/are**

1 point

- a. Code sharing
- b. Code maintainability
- c. Code reusability
- d. All of the above

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

8) Consider the following class definition:

1 point

```
class Student extends String {  
  
}
```

Which of the following statement(s) is/ are TRUE?

- a. Code will not compile because the body is not defined.
- b. Code will not compile because the class is not declared as public.
- c. Code will not compile because of the super class String.
- d. Code will compile successfully.

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

9)

1 point

```
public class Test1{  
    Test1() {  
        Test1 obj1 = new Test1();  
    }  
  
    public static void main(String []args) {  
        Test1 obj = new Test1();  
        System.out.println("Hello");  
    }  
}
```

Which of the following statements is/ are true?

- a. Hello
- b. Program will compile successfully.
- c. There will be a compile-time error.
- d. The program will give a runtime error.

Assessment submitted.
X

- ☐ a.
- ☒ b.
- ☐ c.
- ☒ d.

10)

1 point

Which of the following statement(s) is/are true?

- a. Hiding internal data from the outside world, and accessing it only through publicly exposed methods is known as data **encapsulation**.
- b. Common behavior can be defined in a **superclass** and inherited into a **subclass** using the **extends** keyword.
- c. The term "class variable" is another name for **non-static field**.
- d. A local variable stores temporary state; it is declared inside a **method**.

- ☒ a.
- ☒ b.
- ☐ c.
- ☒ d.

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers