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



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Course outline

How does an
NPTEL online
course work?
()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

- Lecture 11 :
Java Static
Scope Rule
(unit?
unit=34&lesson
=35)

Week 3:Assignment 3

The due date for submitting this assignment has passed.

Due on 2023-08-16, 23:59 IST.

Assignment submitted on 2023-08-15, 15:45 IST

1)

1 point

In which of the following scenario(s), the static block is used in Java?

- a. To create static variables.
- b. To initialize instance variables.
- c. To initialize static variables.
- d. To create new objects.

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

2)

1 point



● Lecture 12 :
Demonstration-
V (unit?
unit=34&lesson
=36)

● Lecture 13 :
Inheritance
(unit?
unit=34&lesson
=37)

● Lecture 14 :
Demonstration-
VI (unit?
unit=34&lesson
=38)

● Lecture 15 :
Information
Hiding (unit?
unit=34&lesson
=39)

● Quiz: Week
3:Assignment
3
(assessment?
name=234)

● Week 3 :
Programming
Assignment 1
(/noc23_cs74/p
rogassignment
?name=229)

● Week 3 :
Programming
Assignment 2
(/noc23_cs74/p
rogassignment
?name=230)

● Week 3 :
Programming
Assignment 3
(/noc23_cs74/p
rogassignment
?name=231)

● Week 3 :
Programming
Assignment 4
(/noc23_cs74/p

Consider the following piece of code.

```
public class Question {
    private static int count = 0;

    public static void main(String[] args) {
        incrementCount();
        System.out.println("Count: " + count);
    }

    _____ incrementCount() {
        count++;
    }
}
```

Fill in the blank with the appropriate keyword(s) from the list given below so that the program compiles successfully.

- a. public void
- b. private void
- c. public static void
- d. private static void

- ☐ a.
- ☐ b.
- ☒ c.
- ☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- c.
- d.

3)

1 point

rogassignment
?name=232)

● Week 3 :
Programming
Assignment 5
(/noc23_cs74/p
rogassignment
?name=233)

● Week 3
Feedback Form
(unit?
unit=34&lesson
=40)

● Assignment 3
Solution (unit?
unit=34&lesson
=41)

Week 4 : ()

Week 5 : ()

Week 6 : ()

Week 7 : ()

Week 8 : ()

Week 9 : ()

Week 10 : ()

Week 11 : ()

Week 12 : ()

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Consider the following piece of code.

```
class A {
    public void display() {
        System.out.println("A's display method");
    }
}

class B extends A {
    public void display() {
        System.out.println("B's display method");
    }
}

public class Main {
    public static void main(String[] args) {
        A a = new B();
        a.display();
        ((B) a).display();
    }
}
```

What is the output of the above code?

- A's display method
B's display method
- A's display method
A's display method
- B's display method
B's display method
- B's display method
A's display method

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

4)

1 point

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

- a. You can write a new instance method in the subclass with the same signature as the one in the superclass, thus overriding it.
- b. You can write a new static method in the subclass with the same signature as the one in the superclass, thus hiding it.
- c. A subclass inherits all of its parent's public and protected members, no matter what package the subclass is in.
- d. You cannot declare new methods in the subclass that are not in the superclass.

☐ a.

☐ b.

☐ c.

☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

5)

1 point

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

- a. You will get a compile-time error if you attempt to change an instance method in the superclass to a static method in the subclass.
- b. You can prevent a class from being subclassed by using the final keyword in the class's declaration.
- c. An abstract class can be instantiated.
- d. Common behaviour can be defined in a superclass and inherited into a subclass using the extends keyword.

☒ a.

☒ b.

☐ c.

☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

d.

6)

1 point



Consider the following program.

```
public class Question{  
    public static void main(String[] args){  
        String str = " programming in java ";  
        System.out.println(str.substring(1,3)+str.substring(4,5)+  
                           str.substring(6,8));  
    }  
}
```

What is the output of the above program?

- a. prgam
- b. program
- c. gramm
- d. ing in

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

7)

1 point

Consider the following piece of code.

```
class Question{
    static int a =10;
}

class Question1 extends Question{
    static int a =20;
}

public class Quest extends Question1{
    public static void main(String args[]){
        a =100;
        System.out.println(Question.a);
        System.out.println(Question1.a);
    }
}
```

Which of the following is the output of the above program?

a. 10
100

b. 10
20

c. 100
10

d. 10
10

- ☒ a.
☐ b.
☐ c.
☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

8)

1 point

QUESTION 8:

Consider the following program.

```
class Question {
    int a=400;
    int b=200;
}
public class Child1 extends Question {
    int a=1000;
    int b=2000;
void add(int a,int b) {
    System.out.println(a+this.b-super.a);
}
public static void main(String[] args) {
    Child1 c = new Child1();
    c.add(100,300);
}
}
```

If the program is executed, then what will be the output from the execution?

- a. 1700
- b. 1300
- c. 0
- d. 2600

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

9)

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. Static methods in interfaces are never inherited.
- c. The term "class variable" is another name for a non-static field.
- d. A local variable stores a temporary state; it is declared inside a method.

- ☒ a.



- ☒ b.
☐ c.
☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

d.

10) **All classes in java are inherited from which class?**

1 point

- a. java.lang.class
b. java.class.inherited
c. java.class.object
d. java.lang.Object

- ☐ a.
☐ b.
☐ c.
☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.