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

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Course  
outline

About  
NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

● Lecture 01 :  
Introduction  
(unit?  
unit=18&lesso  
n=19)

● Lecture 02 :  
Java  
Programming

# Week 1 Assignment 1

The due date for submitting this assignment has passed.

Due on 2025-02-05, 23:59 IST.

Assignment submitted on 2025-01-18, 16:10 IST

1) Which of the following is true?

1 point

- a. Java uses only interpreter.
- b. Java uses only compiler.
- c. Java uses both interpreter and compiler.
- d. None of the above.

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

c.

Steps (unit? unit=18&lesso n=20)	2) <b>A Java file with extension '.class' contains</b>	<b>1 point</b>
● Lecture 03 : Java Tools and Resources (unit? unit=18&lesso n=21)	a. Java source code	
● Lecture 04 : Demonstration -I (unit? unit=18&lesso n=22)	b. HTML tags	
● Lecture 05 : Java Applet Programming (unit? unit=18&lesso n=23)	c. Java Byte code	
● Quiz: Week 1 Assignment 1 (assessment? name=469)	d. A program file written in Java programming language	
● Feedback Form (unit? unit=18&lesso n=24)	<input type="radio"/> a. <input type="radio"/> b. <input checked="" type="radio"/> c. <input type="radio"/> d.	Yes, the answer is correct. Score: 1 Accepted Answers: c.
● Week 01 : Assignment Solution (unit? unit=18&lesso n=430)	3)	<b>1 point</b>
● Week 01 : Programming Assignment 1 (/noc25_cs57/ progassignme nt?name=448)	<b>Which of the following is not an object-oriented programming paradigm?</b>	
● Week 01 : Programming Assignment 2 (/noc25_cs57/ progassignme nt?name=449)	a. Encapsulation b. Inheritance c. Polymorphism d. Dynamic memory allocation	
● Week 01 : Programming Assignment 3 (/noc25_cs57/ progassignme nt?name=450)	<input type="radio"/> a. <input type="radio"/> b. <input type="radio"/> c. <input checked="" type="radio"/> d.	Yes, the answer is correct. Score: 1 Accepted Answers: d.
	4)	<b>1 point</b>

Week 01 :  
 Programming Assignment 4 (/noc25\_cs57/progassignment?name=451)

Week 01 :  
 Programming Assignment 5 (/noc25\_cs57/progassignment?name=452)

**Week 2 : ()**

**Week 3 : ()**

**Week 4 : ()**

**Week 5 : ()**

**Week 6 : ()**

**Week 7 : ()**

**Week 8 : ()**

**Week 9 : ()**

**Week 10 : ()**

**Week 11 : ()**

**Week 12 : ()**

**Books ()**

**Text  
Transcripts  
( )**

**Java is a platform independent programming language because**

- a. It compiles an intermediate code targeting a virtual machine, which can be interpreted by an interpreter for a given OS.
- b. The Java compiler translates the source code directly into the machine-level language.
- c. It follows the concept of "write once and compile everywhere".
- d. It is written almost similar to the English language.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

5) **Which of the following is not a Language Processor?** **1 point**

- a. Assembler**
- b. Compiler**
- c. Interpreter**
- d. Fortran**

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

6) **1 point**

**A platform is the hardware or software environment in which a program runs. Which of the following is/are Java platform component(s)?**

- a. HTML**
- b. Java Virtual Machine**
- c. Javascript**
- d. HotJava**

- a.
- b.

- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

7)

**1 point**

**What is the correct sequence of steps to execute a Java program?**

- I. **Compile the Program:** Use the `javac` command to compile the code into bytecode.
- II. **Edit the Program:** Write the code in a text editor or IDE.
- III. **Run the Program:** Use the `java` command to execute the bytecode.

**Which of the following options represents this sequence?**

- a. Run → Edit → Compile
- b. Edit → Run → Compile
- c. Compile → Edit → Run
- d. Edit → Compile → Run

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

8)

**1 point**

**What is the primary difference between `javac` and `java` commands?**

- a. `javac` is used to edit Java code, while `java` runs Java programs.
- b. `javac` compiles Java source code to bytecode, while `java` executes the bytecode on the JVM.
- c. `javac` executes Java programs, while `java` is used for compilation.
- d. Both are used for compiling Java programs.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

9) Which of the following is not a feature of Java?

1 point

- a. Platform Independence
- b. Object-Oriented Programming
- c. Supports Explicit Pointers
- d. Supports Polymorphism

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

10)

1 point

What is the output of the following code?

```
class NPTEL {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

- a. Hello, World!
- b. HelloWorld!
- c. Compilation Error
- d. Runtime Error

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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Course  
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About  
NPTEL ()

How does an  
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course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Lecture 06 :  
Demonstration  
-II (unit?  
unit=26&lesso  
n=27)

## Week 2 Assignment 2

The due date for submitting this assignment has passed.

Due on 2025-02-05, 23:59 IST.

Assignment submitted on 2025-02-05, 23:45 IST

1)

1 point

Consider the following object declaration statement

```
Scanner in = new Scanner(System.in);
```

What does `System.in` stands for in the above declaration?

- a. Any file storing data
- b. Refers to the standard input stream, which is typically the keyboard by default.
- c. Reference to scanner as an input device
- d. It is a mouse as an input device

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*b.*

2)

1 point

Lecture 07 :  
Encapsulation  
(unit?  
unit=26&lesso  
n=28)

Lecture 08 :  
Demonstration  
-III (unit?  
unit=26&lesso  
n=29)

Lecture 09 :  
Java  
Programming  
Insights (unit?  
unit=26&lesso  
n=30)

Lecture 10 :  
Demonstration  
-IV (unit?  
unit=26&lesso  
n=31)

Quiz: Week 2  
Assignment 2  
(assessment?  
name=470)

Feedback  
Form (unit?  
unit=26&lesso  
n=32)

Week 02 :  
Assignment  
Solution (unit?  
unit=26&lesso  
n=431)

Week 02 :  
Programming  
Assignment 1  
(/noc25\_cs57/  
progassignme  
nt?name=458)

Week 02 :  
Programming  
Assignment 2  
(/noc25\_cs57/  
progassignme  
nt?name=459)

Week 02 :  
Programming  
Assignment 3  
(/noc25\_cs57/

**What will be the output of the following Java program?**

```
public class VarPrint {
    int x = 30;
    static int y = 20;

    public static void main(String[] args) {
        VarPrint t1 = new VarPrint();
        t1.x = 88;
        t1.y = 99;
        int z1 = t1.x + t1.y;
        VarPrint t2 = new VarPrint();
        System.out.println(t2.x + " " + t2.y + " " + z1);
    }
}
```

a. 30 99 178

b. 30 88 129

c. 30 99 187

d. 88 99 178

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

3)

**1 point**

progassignme  
nt?name=460)

Week 02 :  
Programming  
Assignment 4  
(/noc25\_cs57/  
progassignme  
nt?name=461)

Week 02 :  
Programming  
Assignment 5  
(/noc25\_cs57/  
progassignme  
nt?name=462)

**Week 3 : ()**

**Week 4 : ()**

**Week 5 : ()**

**Week 6 : ()**

**Week 7 : ()**

**Week 8 : ()**

**Week 9 : ()**

**Week 10 : ()**

**Week 11 : ()**

**Week 12 : ()**

**Books ()**

**Text  
Transcripts  
( )**

**What will be the output of the following Java program?**

```
public class ArgumentTest {
    public static void main(String[] args) {
        Test t = new Test();
        t.start();
    }

    static class Test {
        void start() {
            int a = 4;
            int b = 5;
            System.out.print(" " + 8 + 3 + " ");
            System.out.print(a + b);
            System.out.print(" " + a + b + " ");
            System.out.print(foo() + a + b + " ");
            System.out.println(a + b + foo());
        }

        String foo() {
            return "foo";
        }
    }
}
```

- a. 9 7 7 foo34 34foo
- b. 839 45foo45 9foo
- c. 72 34 34 foo34 34foo
- d. 9 7 7 foo 7 7foo

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

4)

**1 point**

**What is encapsulation in object-oriented programming?**

- a. Hiding implementation details and exposing only functionality
- b. The process of creating multiple objects in a program
- c. Writing multiple methods in a single class
- d. Using the this keyword to reference an object

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

5) **Which of the following is true about constructors in a class?**

1 point

- a. Constructors must have a return type.
- b. Constructors are used to initialize objects.
- c. A class can have only one constructor.
- d. Constructors cannot be overloaded.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

6)

1 point

What does the `this` keyword in Java help to achieve?

- a. Avoiding name space collision between instance variables and method parameters
- b. Overloading methods in a class
- c. Accessing private methods in another class
- d. Creating multiple objects in a program

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

7) What is the correct signature of the `main` method in Java? 1 point

- a. `public void main(String args[])`
- b. `public static void main(String args[])`
- c. `void main(String[] args)`
- d. `public static void main(String[] args)`

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

- b.*
- OR*
- d.*

8) Which of the following is used to take runtime input in Java? 1 point

- a. `BufferedReader`
- b. `Scanner`
- c. `DataInputStream`
- d. `All of the above`

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

- d.*

9) Which method is used to format output in Java?

1 point

- a. **print()**
- b. **println()**
- c. **printf()**
- d. **format()**

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

c.

10)

1 point

Which Java class is primarily used to read input from the console?

- a. **Scanner**
- b. **BufferedReader**
- c. **Console**
- d. **DataInputStream**

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

a.

X



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Course  
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About  
NPTEL ()

How does an  
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online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Lecture 11 :  
Java Static  
Scope Rule  
(unit?)

## Week 3 Assignment 3

The due date for submitting this assignment has passed.

Due on 2025-02-12, 23:59 IST.

Assignment submitted on 2025-02-12, 21:53 IST

1)

1 point

Which of the following is true about the `super` keyword in Java?

- a. `super` can be used to call a parent class constructor.
- b. `super` is used to access private variables of the parent class.
- c. `super` is used to call a static method in the parent class.
- d. `super` can only be used inside a static method.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

2)

1 point

unit=34&lesso  
n=35)

○ Lecture 12 :  
Demonstration  
-V (unit?  
unit=34&lesso  
n=36)

○ Lecture 13 :  
Inheritance  
(unit?  
unit=34&lesso  
n=37)

○ Lecture 14 :  
Demonstration  
-VI (unit?  
unit=34&lesso  
n=38)

○ Lecture 15 :  
Information  
Hiding (unit?  
unit=34&lesso  
n=39)

● Quiz: Week 3  
Assignment 3  
(assessment?  
name=471)

○ Feedback  
Form (unit?  
unit=34&lesso  
n=472)

○ Week 03 :  
Assignment  
Solution (unit?  
unit=34&lesso  
n=433)

● Week 03 :  
Programming  
Assignment 1  
(/noc25\_cs57/  
progassignme  
nt?name=453)

● Week 03 :  
Programming  
Assignment 2  
(/noc25\_cs57/  
progassignme  
nt?name=454)

● Week 03 :  
Programming  
Assignment 3

What is the output of the following Java program?

```
class StaticScopeDemo {
    static int x = 5;

    public static void main(String[] args) {
        int x = 10;
        {
            int x = 15; // Compilation Error
            System.out.println(x);
        }
    }
}
```

- a. 15
- b. Compilation Error
- c. 5
- d. 10

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

3)

1 point

What will be the output of the following program?

```
class Parent {
    void display() {
        System.out.println("Parent display");
    }
}

class Child extends Parent {
    void display() {
        System.out.println("Child display");
    }
}

public class Main {
    public static void main(String[] args) {
        Parent obj = new Child();
        obj.display();
    }
}
```

- a. Parent display
- b. Child display
- c. Compilation Error
- d. Runtime Error

- a.
- b.

(/noc25\_cs57/  
progassignme  
nt?name=455)

- c.  
 d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
b.

4)

**1 point**

Which of the following statements about abstract classes in Java is correct?

- a. Abstract classes can be instantiated directly.
- b. An abstract class must contain at least one abstract method.
- c. A class inheriting from an abstract class must implement all its abstract methods unless it is itself abstract.
- d. Abstract classes can be marked as **final**.

**Week 4 : ()**

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
c.

5)

**1 point**

What will be the output of the following Java program?

```
public class NptelExample {
    public static int fun(int n) {
        if (n == 0) {
            return 1;
        }
        return n * fun(n - 1);
    }

    public static void main(String[] args) {
        System.out.println(fun(5));
    }
}
```

- a. 5
- b. 24
- c. 120
- d. Runtime Error

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

C.

6)

1 point

Which of the following is NOT true regarding the final keyword in Java?

- a. A final method cannot be overridden in a subclass.
- b. A final variable can only be assigned once.
- c. A final class can have subclasses.
- d. A final variable can be assigned during declaration or in the constructor.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

C.

7)

1 point

What is the output of the following Java program?

```
class Test {  
    static int count = 0;  
  
    public Test() {  
        count++;  
    }  
  
    public static void main(String[] args) {  
        Test obj1 = new Test();  
        Test obj2 = new Test();  
        Test obj3 = new Test();  
        System.out.println("Count: " + Test.count);  
    }  
}
```

a. Count: 0

b. Compilation Error

c. Runtime Error

d. Count: 3

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

8)

**1 point**

Which of these is NOT an example of method overriding in Java?

- a. A subclass defining a method with the same name but different parameters than a superclass method.
- b. A subclass providing a new implementation for a method in the superclass.
- c. A subclass defining a method with the same name and parameters as a superclass method.
- d. Using the super keyword to call the superclass version of an overridden method.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

9)

**1 point**

What is the output of the following Java program?

```
class Parent {  
    String message() {  
        return "Parent";  
    }  
}  
  
class Child extends Parent {  
    String message() {  
        return "Child";  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
        Child p = new Parent();  
        System.out.println(p.message());  
    }  
}
```

- a. Parent
- b. Child
- c. Compilation Error
- d. No error and nothing is printed

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

C.

10)

**1 point**

What is the output of the following program?

```
public class Nptel {  
    public static int fun(int n) {  
        if (n == 0) {  
            return 0;  
        }  
        return n + fun(n - 1);  
    }  
  
    public static void main(String[] args) {  
        System.out.println(fun(5));  
    }  
}
```

- a. 5
- b. 10
- c. 15
- d. Runtime Error

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

C.

X



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Course  
outline

About  
NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

## Week 4 Assignment 4

The due date for submitting this assignment has passed.

Due on 2025-02-19, 23:59 IST.

Assignment submitted on 2025-02-19, 18:50 IST

1)

1 point

Which access modifier allows a method to be accessible within the same package but not from outside the package?

- a. default
- b. private
- c. public
- d. protected

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

2)

1 point



Lecture 16 :  
Demonstration  
-VII (unit?  
unit=42&lesso  
n=43)

Lecture 17 :  
Packages-I  
(unit?  
unit=42&lesso  
n=44)

Lecture 18 :  
Packages-II  
(unit?  
unit=42&lesso  
n=45)

Lecture 19 :  
Demonstration  
-VIII (unit?  
unit=42&lesso  
n=46)

Lecture 20 :  
Interface-I  
(unit?  
unit=42&lesso  
n=47)

**Quiz: Week 4  
Assignment 4  
(assessment?  
name=473)**

Feedback  
Form (unit?  
unit=42&lesso  
n=474)

Week 04 :  
Assignment  
Solution (unit?  
unit=42&lesso  
n=435)

**Week 04 :**  
Programming  
Assignment 1  
(/noc25\_cs57/  
progassignme  
nt?name=464)

**Week 04 :**  
Programming  
Assignment 2  
(/noc25\_cs57/  
progassignme  
nt?name=465)

**What will happen if you attempt to access a private method from another class in Java?**

- a. The method will be accessible.
- b. The method will throw an exception.
- c. The method will be inaccessible.
- d. The method will be converted to protected.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

3)

**1 point**

**What will be the output of the following code?**

```
class Person {
    int a = 1;
    int b = 0;
    public Person() {
        System.out.println(a + b + " Java ");
    }
}

class Employee extends Person {
    int a = 0;
    int b = 1;
    public Employee() {
        System.out.println(a * b + " Java ");
    }
}

public class Question {
    public static void main(String args[]) {
        Person p = new Employee();
    }
}
```

- a. 1 Java 10  
0 Java 0
- b. 1 Java  
0 Java
- c. 10 Java  
0 Java
- d. 1 java 1  
0 Java 0

- a.
- b.
- c.
- d.



Week 04 :  
Programming  
Assignment 3  
(/noc25\_cs57/  
progassignme  
nt?name=466)

Week 04 :  
Programming  
Assignment 4  
(/noc25\_cs57/  
progassignme  
nt?name=467)

Week 04 :  
Programming  
Assignment 5  
(/noc25\_cs57/  
progassignme  
nt?name=468)

**Week 5 : ()**

**Week 6 : ()**

**Week 7 : ()**

**Week 8 : ()**

**Week 9 : ()**

**Week 10 : ()**

**Week 11 : ()**

**Week 12 : ()**

**Books ()**

**Text  
Transcripts  
()**

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*b.*

4) **Which of the following is a built-in Java package?**

**1 point**

- a. **java.util**
- b. **my.package.util**
- c. **default.package**
- d. **system.java**

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*a.*

5) **What keyword is used to define a package in Java?**

**1 point**

- a. **define**
- b. **package**
- c. **import**
- d. **namespace**

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
*b.*



6) How do you import a specific class from a package in Java? 1 point

- a. **import package.\*;**
- b. **import package.ClassName;**
- c. **include package.ClassName;**
- d. **use package.ClassName;**

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*b.*

7) 1 point

Consider the following program:

```
class Base {  
    public void print() {  
        System.out.println("Base class...");  
    }  
}  
class Derived extends Base {  
    public void print() {  
        System.out.println("Derived class...");  
    }  
}  
public class Main {  
    private static void main (String[] args) {  
        Base b = new Base();  
        b.print();  
        Derived d = new Derived();  
        d.print();  
    }  
}
```

How many errors does this program contain?

- a. None
  - b. 1
  - c. 2
  - d. 3
- a.
  - b.
  - c.
  - d.

No, the answer is incorrect.



Score: 0

Accepted Answers:

b.

8) **Which of the following is true about Java interfaces?** 1 point

- a. They cannot contain method implementations.
- b. An interface can extend multiple classes.
- c. An interface can only contain abstract methods.
- d. They allow a class to achieve multiple inheritance.

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

9) 1 point

**What will happen if you do not specify an access modifier for a class in a package?**

- a. The class will be `private` by default.
- b. The class will be `protected` by default.
- c. The class will be accessible only within the same package.
- d. The class will be `public` by default.

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

10) 1 point



Which access modifier provides the most restrictive access in Java?

- a. **default**
- b. **protected**
- c. **private**
- d. **public**

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.



X



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Course  
outline

About  
NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

## Week 5 Assignment 5

The due date for submitting this assignment has passed.

**Due on 2025-02-26, 23:59 IST.**

Assignment submitted on 2025-02-26, 21:38 IST

1)

**1 point**

Which of the following statement(s) is/are true about `finally` in Java?

- I. The `finally` block is executed regardless of whether an exception is thrown or not.
  - II. A `finally` block can exist without a `catch` block.
  - III. The `finally` block will not execute if `System.exit()` is called in the `try` block.
  - IV. A `finally` block can have a `return` statement, but it is not recommended to use.
- a. I and II
  - b. II and III
  - c. I, II and III
  - d. I, II, III and IV

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

2)

**1 point**

Lecture 21 :  
Interface-II  
(unit?  
unit=50&lesso  
n=51)

Lecture 22 :  
Demonstration  
-IX (unit?  
unit=50&lesso  
n=52)

Lecture 23 :  
Exception  
Handling-I  
(unit?  
unit=50&lesso  
n=53)

Lecture 24 :  
Exception  
Handling-II  
(unit?  
unit=50&lesso  
n=54)

Lecture 25 :  
Exception  
Handling-III  
(unit?  
unit=50&lesso  
n=55)

**● Quiz: Week 5**  
**Assignment 5**  
**(assessment?**  
**name=480)**

Feedback  
Form (unit?  
unit=50&lesso  
n=56)

Week 05 :  
Assignment  
Solution (unit?  
unit=50&lesso  
n=438)

Week 05 :  
Programming  
Assignment 1  
(/noc25\_cs57/  
progassignme  
nt?name=481)

Week 05 :  
Programming  
Assignment 2  
(/noc25\_cs57/

**What will be the output of the following Java program?**

```
interface A {
    int x = 10;
    void display();
}
class B implements A {
    public void display() {
        System.out.println("Value of x: " + x);
    }
}
public class Main {
    public static void main(String[] args) {
        B obj = new B();
        obj.display();
    }
}
```

- a. Value of x: 10**
- b. Value of x: 0**
- c. Compilation Error**
- d. Runtime Error**

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

3)

**1 point**

**What will be the output of the following program?**

```
class NPTEL {
    public static void main(String[] args) {
        try {
            int a = 5;
            int b = 0;
            System.out.println(a / b);
        } catch (ArithmException e) {
            System.out.print("Error ");
        } finally {
            System.out.print("Complete");
        }
    }
}
```

- a. 5 Complete**
- b. Error Complete**
- c. Runtime Error**
- d. Compilation Error**

- a.
- b.
- c.

progassignme  
nt?name=482)

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

4)

**1 point**

Which of the following is TRUE regarding abstract class and an interface in Java?

- I. Abstract classes can contain constructors, but interfaces cannot.
  - II. Interfaces support multiple inheritance, but abstract classes do not.
  - III. Abstract classes can have both abstract and concrete methods, whereas interfaces only had abstract methods before Java 8.
- a. I, II and III  
b. II only  
c. I and II only  
d. II and III only

a.

b.

c.

d.

**Week 6 : ()**

**Week 7 : ()**

**Week 8 : ()**

**Week 9 : ()**

**Week 10 : ()**

**Week 11 : ()**

**Week 12 : ()**

**Books ()**

**Text**

**Transcripts**

)

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

5) Which of the following is a *checked exception* in Java?

**1 point**

- a. NullPointerException  
b. ArrayIndexOutOfBoundsException  
c. IOException  
d. ArithmeticException

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

6)

**1 point**

Which keyword is NOT used by Java during exception handling?

- a. try
- b. catch
- c. final
- d. finally

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

7) What is the purpose of the throws keyword in Java?

1 point

- a. To declare exceptions that a method can throw
- b. To throw an exception immediately
- c. To catch an exception
- d. It is not a keyword in Java

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

8) Which of the following is TRUE about interfaces in Java? 1 point

- a. Interfaces should always be defined as final
- b. Interfaces can be instantiated directly.
- c. Interfaces can extend multiple interfaces.
- d. Interfaces cannot have any methods signatures

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

c.

9) 1 point

What will be the output of the following code?

```
interface Demo {  
    void display();  
}  
  
class Test implements Demo {  
    public void display() {  
        System.out.println("Hello, NPTEL!");  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
        Test obj = new Test();  
        obj.display();  
    }  
}
```

- a. Hello, NPTEL!
- b. Compilation Error
- c. Runtime Error
- d. No Output

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

a.

10)

**1 point****What will be the output of the following Java program?**

```
interface Calculator {  
    void calculate(int value);  
}  
  
class Square implements Calculator {  
    int result;  
    public void calculate(int value) {  
        result = value * value;  
        System.out.print("Square: " + result + " ");  
    }  
}  
  
class Cube extends Square {  
    public void calculate(int value) {  
        result = value * value * value;  
        super.calculate(value);  
        System.out.print("Cube: " + result + " ");  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
        Calculator obj = new Cube();  
        obj.calculate(3);  
    }  
}
```

- a. Square: 9 Cube: 9
- b. Cube: 27 Square: 9
- c. Square: 9 Square: 27 Cube: 27
- d. Square: 9 Cube: 27 Square: 27

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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Course  
outline

About  
NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

## Week 6 Assignment 6

The due date for submitting this assignment has passed.

**Due on 2025-03-05, 23:59 IST.**

Assignment submitted on 2025-03-05, 21:56 IST

1)

**1 point**

Consider the following code snippet.

```
class MyThread extends Thread {
    public void run() {
        for (int i = 0; i < 3; i++) {
            System.out.println("Running thread: " + i);
        }
    }
}

public class Main {
    public static void main(String[] args) {
        MyThread thread = new MyThread();
        thread.run();
        System.out.println("Main method complete.");
    }
}
```

What will be the output of the program?

- a. Running thread: 0  
Running thread: 1  
Running thread: 2  
Main method complete.
- b. Running thread: 0  
Main method complete.  
Running thread: 1  
Running thread: 2
- c. Main method complete.
- d. Error: The thread was not started using start()

**Week 6 : ()**

○ Lecture 26 :  
Demonstration  
-X (unit?  
unit=58&lesso  
n=59)

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

○ Lecture 27 :  
Multithreading-  
I (unit?  
unit=58&lesso  
n=60)

Accepted Answers:  
a.

2)

**1 point**

**Which of the following best describes the concept of multithreading in Java?**

- a. Multiple threads execute concurrently, sharing the same memory space.**
- b. Only one thread executes at a time, ensuring sequential execution.**
- c. Threads in Java cannot communicate with each other.**
- d. Threads require separate memory allocation for each thread to run.**

○ Lecture 28 :  
Multithreading-  
II (unit?  
unit=58&lesso  
n=61)

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

○ Lecture 29 :  
Demonstration  
-XI (unit?  
unit=58&lesso  
n=62)

Accepted Answers:  
a.

3)

**1 point**

**What will happen when the following code is executed?**

```
class ExampleThread extends Thread {
    public void run() {
        System.out.println("Thread is running.");
    }
}

public class Main {
    public static void main(String[] args) {
        ExampleThread thread = new ExampleThread();
        thread.start();
        thread.start();
    }
}
```

○ Lecture 30 : I-  
O Stream-I  
(unit?  
unit=58&lesso  
n=63)

Accepted Answers:  
a.

● Quiz: Week 6  
Assignment 6  
(assessment?  
name=487)

3)

○ Feedback  
Form (unit?  
unit=58&lesso  
n=178)

**What will happen when the following code is executed?**

```
class ExampleThread extends Thread {
    public void run() {
        System.out.println("Thread is running.");
    }
}

public class Main {
    public static void main(String[] args) {
        ExampleThread thread = new ExampleThread();
        thread.start();
        thread.start();
    }
}
```

● Week 06 :  
Assignment  
Solution (unit?  
unit=58&lesso  
n=439)

- a. The program will execute successfully, printing "Thread is running." twice.**
- b. The program will throw an error when attempting to start the thread a second time.**
- c. The program will terminate without any output.**
- d. The thread will run only once, and the second start() call will be ignored.**

● Week 06 :  
Programming  
Assignment 1  
(/noc25\_cs57/  
progassignme  
nt?name=477)

- a.

progassignme  
nt?name=475)

- b.
- c.
- d.

Week 06 :  
Programming  
Assignment 3  
(/noc25\_cs57/  
progassignme  
nt?name=476)

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

Week 06 :  
Programming  
Assignment 4  
(/noc25\_cs57/  
progassignme  
nt?name=478)

4)

1 point

Find the error in the following program:

```
class RunnableExample implements Runnable {
    public void run() {
        for (int i = 1; i <= 3; i++) {
            System.out.println("Runnable thread: " + i);
        }
    }

    public class Main {
        public static void main(String[] args) {
            RunnableExample runnable = new RunnableExample();
            runnable.run();
            System.out.println("Main method ends.");
        }
    }
}
```

Week 7 : ()

Week 8 : ()

Week 9 : ()

Week 10 : ()

Week 11 : ()

Week 12 : ()

Books ()

Text  
Transcripts  
()

a. The program will throw an error because Runnable cannot be executed directly.

b. The program will run successfully but will not create a new thread.

c. The program will create a new thread and execute concurrently.

d. The program will throw a runtime error because Thread is not used.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

5)

1 point

What will happen when the following code is executed?

```
class RunnableExample implements Runnable {
    public void run() {
        for (int i = 1; i <= 3; i++) {
            System.out.println("Thread running: " + i);
        }
    }
}

public class Main {
    public static void main(String[] args) {
        RunnableExample task = new RunnableExample();
        Thread thread = new Thread(task);
        thread.start();
    }
}
```

- a. The program will throw a compile-time error because `Runnable` is not a thread.
- b. The program will execute successfully, and the `run()` method will run in a new thread.
- c. The program will execute the `run()` method directly on the main thread.
- d. The program will throw a runtime error because `Runnable` is not properly implemented.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*b.*

6)

*1 point*

Which of the following states can a thread enter during its lifecycle in Java?

- a. New, Runnable, Running, Blocked
- b. New, Runnable, Waiting, Blocked, Terminated
- c. New, Runnable, Running, Sleeping, Dead
- d. New, Active, Waiting, Suspended, Terminated

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*b.*

7)

**1 point**

**What does the thread scheduler use to decide which thread to run when multiple threads are in the runnable state?**

- a. Thread priority
- b. Thread's execution time
- c. Thread name
- d. Thread creation order

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

8)

**1 point**

**Consider the following program:**

```
class PriorityExample extends Thread {
    public void run() {
        System.out.println(Thread.currentThread().getName() +
            " with priority " +
        Thread.currentThread().getPriority());
    }
}

public class Main {
    public static void main(String[] args) {
        PriorityExample t1 = new PriorityExample();
        PriorityExample t2 = new PriorityExample();

        t1.setPriority(Thread.MIN_PRIORITY);
        t2.setPriority(Thread.MAX_PRIORITY);

        t1.start();
        t2.start();
    }
}
```

**Which of the following is true about the output?**

- a. The thread with the higher priority is guaranteed to execute first.
- b. The thread with the lower priority will never execute.
- c. The order of execution depends on the JVM and OS scheduling policies.
- d. The program will throw an error due to invalid priority values.

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

C.

9)

1 point

**What is the primary purpose of thread synchronization in Java?**

- a. To allow multiple threads to execute a method at the same time
- b. To ensure thread execution follows a specific order
- c. To prevent race conditions and ensure data consistency
- d. To allow threads to communicate with each other

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

C.

10)

1 point

**What is the primary difference between Byte Streams and Character Streams in Java?**

- a. Byte Streams handle characters, while Character Streams handle bytes.
- b. Byte Streams are used for binary data, while Character Streams are used for text data.
- c. Character Streams are faster than Byte Streams in all cases.
- d. Character Streams cannot handle international characters like Unicode.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

X



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outline

About  
NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

## Week 7 Assignment 7

The due date for submitting this assignment has passed.

**Due on 2025-03-12, 23:59 IST.**

Assignment submitted on 2025-03-12, 22:33 IST

1)

1 point

What will be the output of the following Java program?

```
import java.io.*;
class ReadFile {
    public static void main(String[] args) throws IOException {
        FileReader fr = new FileReader("NPTEL.txt");
        BufferedReader br = new BufferedReader(fr);
        System.out.println(br.readLine());
        br.close();
    }
}
```

Assume NPTEL.txt contains:

This is Programming in Java online course.

- a. Hello, World!
- b. This is Programming in Java online course.
- c. IOException
- d. null

- a.
- b.
- c.
- d.

Yes, the answer is correct.

**Week 6 : ()****Week 7 : ()**

Lecture 31 : I-O Stream-II  
(unit?  
unit=66&lesso  
n=67)

Lecture 32 : I-O Stream-III  
(unit?  
unit=66&lesso  
n=68)

Lecture 33 : Demonstration-XII (unit?  
unit=66&lesso  
n=69)

Lecture 34 : Applet Programming - I (unit?  
unit=66&lesso  
n=70)

Lecture 35 : Applet Programming - II (unit?  
unit=66&lesso  
n=71)

**Quiz: Week 7 Assignment 7 (assessment? name=488)**

Feedback form (unit?  
unit=66&lesso  
n=72)

Week 07 : Assignment Solution (unit?  
unit=66&lesso  
n=441)

**Week 07 : Programming Assignment 1 (/noc25\_cs57/progassignment?name=490)**

Score: 1

Accepted Answers:

**b.****2)****1 point****Which of these classes is used to write primitive data types to an output stream in Java?**

- a. FileWriter**
- b. DataOutputStream**
- c. PrintWriter**
- d. BufferedOutputStream**

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

**b.****3)****1 point****What will the following code print?**

```
import java.io.*;

class RandomAccessFileExample {
    public static void main(String[] args) throws IOException {
        RandomAccessFile file = new RandomAccessFile("test.dat", "rw");
        file.writeInt(100);
        file.seek(0);
        System.out.println(file.readInt());
        file.close();
    }
}
```

- a. 0**
- b. Runtime Error**
- c. Compilation Error**
- d. 100**

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

**d.**

● Week 07 :  
 Programming Assignment 2  
 (/noc25\_cs57/progassignment?name=491)

● Week 07 :  
 Programming Assignment 3  
 (/noc25\_cs57/progassignment?name=492)

● Week 07 :  
 Programming Assignment 4  
 (/noc25\_cs57/progassignment?name=493)

● Week 07 :  
 Programming Assignment 5  
 (/noc25\_cs57/progassignment?name=489)

**Week 8 : ()**

**Week 9 : ()**

**Week 10 : ()**

**Week 11 : ()**

**Week 12 : ()**

**Books ()**

**Text  
Transcripts  
( )**

4)

**1 point**

Complete the following snippet with the required code.

```
File file = new File("file.txt");
if (_____) // Fill in the blanks
{
    System.out.println("File exists.");
} else
{
    System.out.println("File does not exist.");
}
```

- a. `file.exists()`
- b. `file.isFile()`
- c. `file.fileExists()`
- d. `file.isAvailable()`

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

5)

**1 point**

What will the following Java program output?

```
import java.io.*;

class SequenceInputStreamExample {
    public static void main(String[] args) throws IOException {
        ByteArrayInputStream input1 = new
        ByteArrayInputStream("123".getBytes());
        ByteArrayInputStream input2 = new
        ByteArrayInputStream("ABC".getBytes());
        SequenceInputStream sequence = new
        SequenceInputStream(input1, input2);

        int i;
        while ((i = sequence.read()) != -1) {
            System.out.print((char) i);
        }
    }
}
```

- a. 123ABC
- b. ABC123
- c. Compilation Error
- d. Runtime Error

- a.  
 b.  
 c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

6)

**1 point**

What is the output of the following Java program?

```
class Main {  
  
    public static void main(String args[]) {  
        final int i;  
        i = 20;  
        i = 30;  
        System.out.println(i);  
    }  
}
```

a. 30

b. Compiler Error

c. Garbage value

d. 0

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

7)

**1 point**

What will be the output of the following Java program?

```
import java.io.*;
class Chararrayinput {
    public static void main(String[] args) {
        String obj = "abcdefg";
        int length = obj.length();
        char c[] = new char[length];
        obj.getChars(0, length, c, 0);
        CharArrayReader input1 = new CharArrayReader(c);
        CharArrayReader input2 = new CharArrayReader(c, 1, 4);
        int i, j;
        try {
            while ((i = input1.read()) == (j = input2.read())) {
                System.out.print((char) i);
            }
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

- a. abc
- b. abcd
- c. abcde
- d. none of the mentioned

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

8)

1 point

What will be the output of the following Java program?

```
public class Calculator {
    int num = 100;

    public void calc(int num) {
        this.num = num * 10;
    }

    public void printNum() {
        System.out.println(num);
    }

    public static void main(String[] args) {
        Calculator obj = new Calculator();
        obj.calc(2);
        obj.printNum();
    }
}
```

- a. 20
- b. 100
- c. 1000
- d. 2

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

a.

9)

**1 point**

What will be the output of the following code?

```
import java.io.*;

public class W7 {
    public static void main(String[] args) {
        try {

            PrintWriter writer = new PrintWriter(System.out);

            writer.write(9 + 97);

            writer.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

- a. It will give compile-time error
- b. It will give run-time error
- c. j
- d. 106

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

c.

10)

**1 point**

**What will be the output of the following code.**

file.txt contain "This is Programming in Java online course." (without quotes)

```
import java.io.File;

class FileSizeExample {
    public static void main(String[] args) {
        // Specify the file path
        String filePath = "file.txt";

        // Create a File object
        File file = new File(filePath);

        // Get the size of the file
        long fileSize = file.length();

        // Print the size of the file
        System.out.println(fileSize);
    }
}
```

- a. 42**
- b. 35**
- c. 7**
- d. 0**

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

a.

X



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Course  
outline

About  
NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

## Week 8 Assignment 8

The due date for submitting this assignment has passed.

Due on 2025-03-19, 23:59 IST.

Assignment submitted on 2025-03-19, 23:28 IST

1)

1 point

Which of the following is TRUE regarding check box and radio button?

- a. Check box is used for single selection item whereas radio button is used for multiple selection.
- b. Check box is used for multiple selection items whereas radio button is used for single selection.
- c. Both are used for multiple as well as single item selection.
- d. Checkbox is always preferred than radio buttons.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

2)

1 point

**Week 6 : ()****Week 7 : ()****Week 8 : ()**

○ Lecture 36 :  
Applet  
Programming - III (unit?  
unit=74&lesso  
n=75)

○ Lecture 37 :  
Demonstration - XIII (unit?  
unit=74&lesso  
n=76)

○ Lecture 38 :  
Demonstration - XIV (unit?  
unit=74&lesso  
n=77)

○ Lecture 39 :  
AWT  
Programming - I (unit?  
unit=74&lesso  
n=78)

○ Lecture 40 :  
AWT  
Programming - II (unit?  
unit=74&lesso  
n=79)

● Quiz: Week 8  
Assignment 8  
(assessment?  
name=495)

○ Feedback  
Form (unit?  
unit=74&lesso  
n=80)

○ Week 08 :  
Assignment  
Solution (unit?  
unit=74&lesso  
n=443)

● Week 08 :  
Programming  
Assignment 1

**Which of the following is the latest graphics and media package for Java?****a. Applet****b. AWT****c. Swing****d. JavaFX** a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

3)

**1 point****Which of the following is/are NOT an exception of java.awt package?****a. HeadlessException****b. AWTException****c. FontFormatException****d. IllegalStateException** a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

4)

**1 point****Which of the following statement is FALSE about the update() in java.awt package?****a. Sets the color of the graphics context to be the foreground color of this component.****b. Calls this component's paint method to completely redraw this component.****c. Updates the component by checking an online repository.****d. Clears this component by filling it with the background color.**

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progassignme  
nt?name=501)

- a.
- b.
- c.
- d.

Week 08 :  
Programming  
Assignment 2  
(/noc25\_cs57/  
progassignme  
nt?name=500)

Yes, the answer is correct.

Score: 1

Accepted Answers:  
c.

5)

1 point

**Which of the following method is used to remove all items from scrolling list in java.awt.list?**

- a. **hide()**
- b. **remove()**
- c. **clear()**
- d. **close()**

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:  
c.

**Week 9 : ()**

**Week 10 : ()**

**Week 11 : ()**

**Week 12 : ()**

**Books ()**

**Text  
Transcripts  
()**

6)

1 point

**Which layout manager arranges components in a single row or column in Java?**

- a. **FlowLayout**
- b. **BorderLayout**
- c. **GridLayout**
- d. **CardLayout**

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:  
a.

7) What does "AWT" stand for in Java?

1 point

- a. Abstract Widget Toolkit
- b. Advanced Window Toolkit
- c. Abstract Window Toolkit
- d. Advanced Widget Toolkit

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

8) Which AWT component is used to create a button in a GUI?

1 point

- a. Label
- b. Button
- c. TextField
- d. Checkbox

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

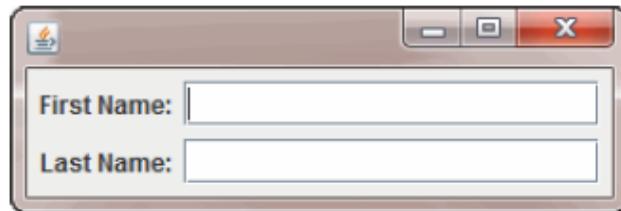
Accepted Answers:

b.

9)

1 point

Which of the following is TRUE about the following GUI?



- a. There is a Frame and two TextFields.
- b. There is a Frame with two Labels and two non-editable TextFields.
- c. There are two Labels.
- d. There is a Frame with two Labels and two TextFields.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

10)

1 point

Which of the following is TRUE about check box in Java?

- a. A check box can't be in either an "on" (true) or "off" (false) state.
- b. Clicking on a check box changes its state from "on" to "off," or from "off" to "on."
- c. A check box can be in an "on" (true) and in "off" (false) state simultaneously.
- d. Check boxes cannot be grouped together.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.



X



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Course  
outline

About  
NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

## Week 9 Assignment 9

The due date for submitting this assignment has passed.

**Due on 2025-03-26, 23:59 IST.**

As per our records you have not submitted this assignment.

1)

**1 point**

Which Swing component is best suited for displaying a drop-down list of selectable options?

a. JButton

b. JComboBox

c. JTextField

d. JPanel

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

2)

**1 point**

**Week 6 : ()****Week 7 : ()****Week 8 : ()****Week 9 : ()**

Lecture 41 :  
Demonstration  
-XV (unit?  
unit=82&lesso  
n=83)

Lecture 42 :  
AWT  
Programming--  
III (unit?  
unit=82&lesso  
n=84)

Lecture 43 :  
Swing  
Programming -  
I (unit?  
unit=82&lesso  
n=85)

Lecture 44 :  
Swing  
Programming -  
II (unit?  
unit=82&lesso  
n=86)

Lecture 45 :  
Demonstration  
-XVI (unit?  
unit=82&lesso  
n=87)

Quiz: Week 9  
Assignment 9  
(assessment?  
name=496)

Feedback  
Form (unit?  
unit=82&lesso  
n=353)

Week 09 :  
Assignment  
Solution (unit?  
unit=82&lesso  
n=446)

**What will be the output of the following Java code?**

```
import javax.swing.*;
import java.awt.*;

public class SwingExample {
    public static void main(String[] args) {
        JFrame frame = new JFrame("Example");
        frame.setLayout(new FlowLayout());
        frame.add(new JButton("Button 1"));
        frame.add(new JButton("Button 2"));
        frame.setSize(300, 200);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setVisible(true);
    }
}
```

- a. A frame with two buttons labeled "Button 1" and "Button 2".
- b. A frame with only one button labeled "Button 2".
- c. Compilation Error.
- d. Runtime Error.

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

3)

**1 point****Which of the following is true about the JLabel component in Java Swing?**

- a. It is used only for displaying text.
- b. It can display text and icons.
- c. It cannot be added to a JPanel.
- d. It generates mouse events by default.

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

4)

**1 point**

Week 09 :  
 Programming  
 Assignment 1  
(/noc25\_cs57/  
progassignme  
nt?name=502)

Week 09 :  
 Programming  
 Assignment 2  
(/noc25\_cs57/  
progassignme  
nt?name=503)

Week 09 :  
 Programming  
 Assignment 3  
(/noc25\_cs57/  
progassignme  
nt?name=504)

Week 09 :  
 Programming  
 Assignment 4  
(/noc25\_cs57/  
progassignme  
nt?name=505)

Week 09 :  
 Programming  
 Assignment 5  
(/noc25\_cs57/  
progassignme  
nt?name=506)

**Week 10 : ()**

**Week 11 : ()**

**Week 12 : ()**

**Books ()**

**Text  
Transcripts  
()**

### Which method is used to handle mouse click events in Java Swing?

- a. **mouseClicked()**
- b. **keyPressed()**
- c. **actionPerformed()**
- d. **componentShown()**

- a.
- b.
- c.
- d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

- a.
- 5)

**1 point**

What should replace **// INSERT CODE HERE** to create a **JFrame** with a **JButton** labeled "Click Me"?

```
import javax.swing.*;  
  
public class FrameExample {  
    public static void main(String[] args) {  
        JFrame frame = new JFrame("Demo Frame");  
        JButton button = new JButton("Click Me");  
        // INSERT CODE HERE  
        frame.setSize(300, 200);  
        frame.setVisible(true);  
    }  
}
```

- a. **frame.add(button);**
- b. **frame.insert(button);**
- c. **frame.append(button);**
- d. **frame.push(button);**

- a.
- b.
- c.
- d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

- a.
- 6)

**1 point**

**Identify and correct the error in the following program:**

```
import javax.swing.*;
import java.awt.*;

public class PanelExample {
    public static void main(String[] args) {
        JFrame frame = new JFrame("Panel Example");
        JPanel panel = new JPanel();
        JButton button = new JButton("Submit");
        panel.setLayout(); // ERROR
        panel.add(button);
        frame.add(panel);
        frame.setSize(300, 200);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setVisible(true);
    }
}
```

**What should the erroneous line (`panel.setLayout()`) be replaced with?**

- a. `panel.setLayout(new GridLayout());`
- b. `panel.addFlowLayout();`
- c. `panel.appendLayout(new FlowLayout());`
- d. `panel.setLayout(new FlowLayout());`

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

7) **1 point**  
**What will the following Java program output?**

```
import javax.swing.*;

public class LabelExample {
    public static void main(String[] args) {
        JFrame frame = new JFrame("Label Demo");
        JLabel label = new JLabel("Welcome to Swing");
        frame.setSize(250, 100);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setVisible(true);
    }
}
```

- a. A frame with the label "Welcome to Swing".
- b. A frame with no visible label.
- c. Compilation Error.
- d. Runtime Error.

- a.
- b.
- c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

8)

**0 points**

**What does the following code do?**

```
import javax.swing.*;  
  
public class NPTEL extends JFrame {  
    JButton button;  
  
    public NPTEL() {  
        button = new JButton("Programming in Java");  
        add(button);  
        setSize(300, 200);  
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        setVisible(true);  
    }  
  
    public static void main(String[] args) {  
        new NPTEL();  
    }  
}
```

- a. Creates a JFrame with a JButton labeled "Programming in Java"
- b. Compiles with errors
- c. Displays a message dialog
- d. Creates a JPanel with a JButton labeled "Programming in Java"

 a. b. c. d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

9)

**1 point**

What happens when the button in this Java code snippet is clicked?

```
import javax.swing.*;
import java.awt.event.*;
public class NPTEL {
    public static void main(String[] args) {
        JFrame frame = new JFrame("NPTEL Java Course");
        JButton button = new JButton("Click Me");
        button.setBounds(50, 100, 100, 40);
        button.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                JOptionPane.showMessageDialog(null, "Welcome to the course");
            }
        });
        frame.add(button);
        frame.setSize(300, 200);
        frame.setLayout(null);
        frame.setVisible(true);
    }
}
```

- a. The program exits
- b. A message dialog with the text "Welcome to the course" is displayed
- c. The button label changes to "Welcome to the course"
- d. Nothing happens

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

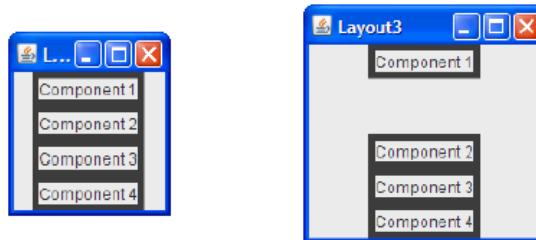
Accepted Answers:

b.

10)

1 point

The container displays a number of components in a column, with extra space going between the first two components.



Which of the following layout manager(s) most naturally suited for the described layout?

- a. BoxLayout
- b. FlowLayout
- c. BorderLayout
- d. GridLayout

- a.
- b.

c. d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

X



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NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

# Week 10 Assignment 10

The due date for submitting this assignment has passed.

**Due on 2025-04-02, 23:59 IST.**

As per our records you have not submitted this assignment.

1) Which Swing component is used to create a button? 1 point

- a. JLabel
- b. JButton
- c. JTextField
- d. JPanel

- a.
- b.
- c.
- d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
b.

2)

1 point

---

Week 6 : ()**What does a toggle button in Java do?**

- a. It switches between two states, like on/off or enabled/disabled.
- b. It only changes the color of the button when clicked.
- c. It displays text inside the button.
- d. It opens a new window when clicked.

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
 a.

3)

**1 point****What is the primary purpose of SQL(Structured Query Language) in Java application? [**

- a. To create and amange user interfaces
- b. To interact with databases for data retrieval and manipulation
- c. To performa systme-level operation like file management
- d. To handle memory allocation in Java programs

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
 Score: 0

Accepted Answers:  
 b.

4)

**1 point****Which method is used in Java to check if a network interface is up and running?**

- a. `isActive()`
- b. `isUp()`
- c. `isRunning()`
- d. `isConnected()`

---

Quiz: Week 10 Assignment 10 (assessment? name=507)

---

Feedback Form (unit? unit=90&lesso n=96)

---

Week 10 Assignment Solution (unit? unit=90&lesso n=526)

Week 10 :  
 Programming  
 Assignment 1  
(/noc25\_cs57/  
 progassignme  
 nt?name=508)

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:  
*b.*

5)

**1 point**

**Which of the following are considered as basic networking components in Java?**

Week 10 :  
 Programming  
 Assignment 3  
(/noc25\_cs57/  
 progassignme  
 nt?name=510)

- a. Socket and ServerSocket**
- b. String and Integer**
- c. JFrame and JButton**
- d. Scanner and System**

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:  
*a.*

6)

**1 point**

**In context of the following URL, identify the correct option.**

<https://nptel.ac.in>

**Week 11 : ()**

**Week 12 : ()**

**Books ()**

**Text  
Transcripts  
()**

- a. There is no protocol provided in the above link.**
- b. The website provides a secure connection.**
- c. The given link is incomplete and hence cannot open a website.**
- d. The ac.in refers to the domain.**

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

*b.*7) **Which of the following is/are application layer protocol(s)?****1 point**

- a. **TCP**
- b. **UDP**
- c. **ARP**
- d. **SMTP**

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

*d.*

8)

**1 point****What does this Java code snippet do?**

```

import java.sql.*;

public class NPTEL {
    public static void main(String[] args) {
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/mydatabase",
                "username", "password");
            Statement stmt = con.createStatement();
            ResultSet rs = stmt.executeQuery("SELECT * FROM employees");
            while (rs.next()) {
                System.out.println(rs.getString(1)+" "+rs.getString(2));
            }
            con.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}

```

- a. Connects to a MySQL database, retrieves data from the "employees" table, and prints it
- b. Inserts data into the "employees" table of a MySQL database
- c. Deletes data from the "employees" table of a MySQL database
- d. Updates data in the "employees" table of a MySQL database

- a.
- b.

- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

9) **Which class provides methods to work with URLs?**

1 point

- a. `URLConnection`**
- b. `HttpURL`**
- c. `NetURL`**
- d. `URL`**

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

10) **Which class in Java is used to create a server socket?**

1 point

- a. `Socket`**
- b. `ServerSocket`**
- c. `DatagramSocket`**
- d. `HttpURLConnection`**

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.



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outline

About  
NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

# Week 11 Assignment 11

The due date for submitting this assignment has passed.

Due on 2025-04-09, 23:59 IST.

Assignment submitted on 2025-04-09, 23:31 IST

1) **What is the full form of JDBC?**

1 point

- a. **Java Database Connectivity**
- b. **Java Data Code**
- c. **Java Data Communication**
- d. **Java Development Connectivity**

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

2)

1 point

**Week 6 : ()****Week 7 : ()****Week 8 : ()****Week 9 : ()****Week 10 : ()****Week 11 : ()**

Lecture 51 :  
JDBC—II  
(unit?  
unit=98&lesso  
n=99)

Lecture 52 :  
JDBC—III  
(unit?  
unit=98&lesso  
n=100)

Lecture 53 :  
Demonstration  
—XX (unit?  
unit=98&lesso  
n=101)

Lecture 54 :  
Demonstration  
—XXI (unit?  
unit=98&lesso  
n=102)

Lecture 55 :  
Demonstration  
—XXII (unit?  
unit=98&lesso  
n=103)

**Quiz: Week  
11  
Assignment  
11  
(assessment?  
name=523)**

Week 11  
Assignment  
Solution (unit?  
unit=98&lesso  
n=527)

Feedback  
Form (unit?)

**Fill in the missing code to establish a connection to a MySQL database.**

```
import java.sql.*;

public class JDBCExample {
    public static void main(String[] args) {
        try {
            // Load JDBC Driver
            Class.forName("com.mysql.cj.jdbc.Driver");

            // Establish Connection
            Connection connection = // INSERT CODE HERE;

            System.out.println("Connected to the database.");
            connection.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

**What should replace // INSERT CODE HERE ?**

- a. `DriverManager.connect("mysql:localhost:mydb", "user", "password");`
- b. `DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb", "user", "password");`
- c. `Connection.get("jdbc:mysql://localhost:3306/mydb", "user", "password");`
- d. `Driver.connect("jdbc:mysql://localhost:mydb", "user", "password");`

- a.
- b.
- c.
- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

*b.*

3)

**1 point**

unit=98&lesson=n=104)

Week 11 :  
Programming  
Assignment 1  
(/noc25\_cs57/  
progassignme  
nt?name=513)

Week 11 :  
Programming  
Assignment 2  
(/noc25\_cs57/  
progassignme  
nt?name=514)

Week 11 :  
Programming  
Assignment 3  
(/noc25\_cs57/  
progassignme  
nt?name=515)

Week 11 :  
Programming  
Assignment 4  
(/noc25\_cs57/  
progassignme  
nt?name=516)

Week 11 :  
Programming  
Assignment 5  
(/noc25\_cs57/  
progassignme  
nt?name=517)

**Week 12 : ()**

**Books ()**

**Text  
Transcripts  
()**

**Identify the error in the following code and select the corrected statement:**

```
import java.sql.*;

public class ResultSetExample {
    public static void main(String[] args) throws SQLException {
        Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb",
"user", "password");
        Statement stmt = connection.createStatement();
        ResultSet rs = stmt.execute("SELECT * FROM users"); // Error
        while (rs.next()) {
            System.out.println(rs.getString("username"));
        }
        connection.close();
    }
}
```

**What is the correct statement to replace the line with error (`stmt.execute ("SELECT * FROM users") ;`)?**

- a. `ResultSet rs = stmt.executeQuery("SELECT * FROM users");`
- b. `ResultSet rs = stmt.runQuery("SELECT * FROM users");`
- c. `ResultSet rs = stmt.execute("users SELECT * FROM");`
- d. `ResultSet rs = stmt.fetch("SELECT * FROM users");`

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

4)

**1 point**

What will the following Java program output if the database contains a table products with a column name and three rows: Laptop, Phone, and Tablet?

```
import java.sql.*;

public class DisplayProducts {
    public static void main(String[] args) {
        try {
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/store", "root",
"pass");
            Statement stmt = conn.createStatement();
            ResultSet rs = stmt.executeQuery("SELECT name FROM products");
            while (rs.next()) {
                System.out.println(rs.getString("name"));
            }
            conn.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```

a. Compilation Error

b. Runtime Error

c. Laptop  
Phone  
Tablet

d. No Output

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

5)

1 point

Complete the following code to insert a new user into a users table.

```
import java.sql.*;

public class InsertUser {
    public static void main(String[] args) {
        try {
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb", "root",
"password");
            String query = "INSERT INTO users (username, email) VALUES
(?, ?)";
            PreparedStatement pstmt = // INSERT CODE HERE;
            pstmt.setString(1, "john doe");
            pstmt.setString(2, "john@example.com");
            pstmt.executeUpdate();
            conn.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```

What should replace // INSERT CODE HERE ?

- a. `conn.createStatement(query);`
- b. `conn.prepareStatement(query);`
- c. `conn.execute(query);`
- d. `conn.runStatement(query);`

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

6)

1 point

Which of the following SQL operations can be executed using the `executeUpdate` method in JDBC?

- I. `INSERT INTO users (id, name) VALUES (1, 'Alice');`
- II. `UPDATE users SET name='Bob' WHERE id=1;`
- III. `DELETE FROM users WHERE id=1;`
- IV. `SELECT * FROM users;`

- a. I, II, and III
- b. Only I and II
- c. Only I
- d. I, II, III and IV

- a.
- b.
- c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

7) **What is the purpose of the DriverManager class in JDBC?** 1 point

- a. To manage database connections.
- b. To execute SQL queries.
- c. To fetch data from a database.
- d. To represent a database record.

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

8) **How do you establish a connection to a database using JDBC?** 1 point

- a. By creating an instance of the Connection interface
- b. By using the DriverManager.getConnection() method
- c. By implementing the Connection interface
- d. By extending the Connection class

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

9)

1 point

**Which method executes a simple query and returns a single Result Set object?**

- a. **executeQuery()**
- b. **executeUpdate()**
- c. **execute()**
- d. **run()**

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

10)

**1 point**

**Which package in Java contains the classes and interfaces for JDBC?**

- a. **java.sql**
- b. **java.io**
- c. **java.db**
- d. **java.net**

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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cs23i1027@iitdm.ac.in ▾

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

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registered, click  
to check your  
payment status

Course  
outline

About  
NPTEL ()

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

# Week 12 Assignment 12

The due date for submitting this assignment has passed.

**Due on 2025-04-16, 23:59 IST.**

As per our records you have not submitted this assignment.

- 1) **What is the correct way to create a thread in Java?** 1 point

- a. Implementing the Runnable interface
- b. Extending the Thread class
- c. Both A and B
- d. None of the above

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

<p><b>Week 6 : ()</b></p> <hr/> <p><b>Week 7 : ()</b></p> <hr/> <p><b>Week 8 : ()</b></p> <hr/> <p><b>Week 9 : ()</b></p> <hr/> <p><b>Week 10 : ()</b></p> <hr/> <p><b>Week 11 : ()</b></p> <hr/> <p><b>Week 12 : ()</b></p> <hr/> <p><input type="radio"/> Lecture 56 : Case Study - I (unit? unit=106&amp;less on=107)</p> <p><input type="radio"/> Lecture 57 : Case Study - II (unit? unit=106&amp;less on=108)</p> <p><input type="radio"/> Lecture 58 : Case Study - III (unit? unit=106&amp;less on=109)</p> <p><input type="radio"/> Lecture 59 : Case Study - IV (unit? unit=106&amp;less on=110)</p> <p><input type="radio"/> Lecture 60 : Case Study - V (unit? unit=106&amp;less on=111)</p> <p><input type="radio"/> Quiz: Week 12 Assignment 12 (assessment? name=524)</p> <hr/> <p><input type="radio"/> Feedback Form (unit? unit=106&amp;less on=525)</p>	<p><b>2) Which method starts a thread in Java? <span style="float: right;">1 point</span></b></p> <p>a. <b>start()</b></p> <p>b. <b>run()</b></p> <p>c. <b>execute()</b></p> <p>d. <b>init()</b></p> <p><input type="radio"/> a. <input type="radio"/> b. <input type="radio"/> c. <input type="radio"/> d.</p> <p>No, the answer is incorrect. Score: 0 Accepted Answers: a.</p> <p><b>3) Which layout arranges components in a row-based order? <span style="float: right;">1 point</span></b></p> <p>a. <b>GridLayout</b></p> <p>b. <b>FlowLayout</b></p> <p>c. <b>BorderLayout</b></p> <p>d. <b>CardLayout</b></p> <p><input type="radio"/> a. <input type="radio"/> b. <input type="radio"/> c. <input type="radio"/> d.</p> <p>No, the answer is incorrect. Score: 0 Accepted Answers: b.</p> <p><b>4) <span style="float: right;">1 point</span></b></p>
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Week 12 :  
Assignment  
Solution (unit?  
unit=106&less  
on=528)

Week 12 :  
Programming  
Assignment 1  
(/noc25\_cs57/  
progassignme  
nt?name=518)

Week 12 :  
Programming  
Assignment 2  
(/noc25\_cs57/  
progassignme  
nt?name=519)

Week 12 :  
Programming  
Assignment 3  
(/noc25\_cs57/  
progassignme  
nt?name=520)

Week 12 :  
Programming  
Assignment 4  
(/noc25\_cs57/  
progassignme  
nt?name=521)

Week 12 :  
Programming  
Assignment 5  
(/noc25\_cs57/  
progassignme  
nt?name=522)

---

**Books ()**

**Text**  
**Transcripts**  
()

**What does the `setSize(400, 300)` ; method do in a JFrame?**

- a. Sets the width to 300 and height to 400**
- b. Sets the width to 400 and height to 300**
- c. Maximizes the Jframe**
- d. Closes the Jframe**

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

*b.*

5) **What does the `ResultSet` object contain in JDBC?**

**1 point**

- a. Only non-null records from a table**
- b. All records from a table, including null values**
- c. Only null records**
- d. A single column from a table**

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

*b.*

6) What will be the output of

1 point

```
System.out.println("hello".length());?
```

- a. 3
- b. 5
- c. 6
- d. 4

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

7) What is the correct way to declare an array in Java?

1 point

- a. int arr = new int(5);
- b. int[] arr = new int[5];
- c. array arr = new int[5];
- d. int arr[] = new int();

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

8)

1 point

What will be printed by the following code?

```
System.out.println("Java".charAt(1));
```

- a. J
- b. a
- c. v
- d. A

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

9)

**1 point**

What is printed when this code runs?

```
try {
    System.out.println("Try block");
} finally {
    System.out.println("Finally block");
}
```

- a. Only "Try block"
- b. Only "Finally block"
- c. "Try block" followed by "Finally block"
- d. Compilation error

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

10) Which Java GUI framework is lightweight? **1 point**

- a. AWT
- b. Swing
- c. Both A and B
- d. None

- a.
- b.
- c.
- d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

*b.*