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



Course outline

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Lecture 01 :  
Introduction  
(unit?  
unit=18&lesson=19)

Lecture 02 :  
Java  
Programming  
Steps (unit?  
unit=18&lesson=20)

Lecture 03 :  
Java Tools and  
Resources  
(unit?  
unit=18&lesson=21)

Lecture 04 :  
Demonstration-  
I (unit?  
unit=18&lesson=22)

Lecture 05 :  
Java Applet  
Programming

# Week 1 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-02-08, 23:59 IST.

Assignment submitted on 2023-01-20, 23:07 IST

1)

1 point

What is the incorrect statement about bytecode?

- a. Java when compiles the source code, it converts it to bytecode.
- b. JVM (Java Virtual Machine) is an interpreter of bytecode.
- c. Bytecode is not portable and it needs to be compiled separately for each platform.
- d. JVM offers a protected environment which helps in enhanced safety for the system.

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

2)

1 point

(unit?  
unit=18&lesson=23)

● Quiz: Week 1  
: Assignment  
1  
(assessment?  
name=147)

● Week 1 :  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment?  
name=143)

● Week 1 :  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment?  
name=142)

● Week 1:  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment?  
name=144)

● Week 1 :  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment?  
name=145)

● Week 1 :  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment?  
name=146)

○ Week 1  
Feedback  
Form (unit?  
unit=18&lesson=24)

○ Assignment 1  
Solution (unit?  
unit=18&lesson=25)

**Week 2 : ()**

**Week 3 : ()**

**Week 4 : ()**

**Week 5 : ()**

**Week 6 : ()**

### Consider the following program

```
public class Test {
    public static void main(String[] args) {
        //***** boolean b = false; *****/ //n1
        String b = "false";
        switch(b){ // n2
        case "False":
            System.out.println("a");
        }
    }
}
```

### What is the output of the above code?

- a. a
- b. Compiler error due to line n1
- c. Compiler error due to line n2
- d. Print nothing

a.

b.

c.

d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
d.

### Which one of the following is not a primitive datatype? 1 point

- a. byte
- b. short
- c. class
- d. long

a.

b.

c.

d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
c.

### 4) Which of the following is not a keyword in java? 1 point

- a. final
- b. super
- c. integer
- d. extend

**Week 7 : ()**

- a.  
 b.  
 c.  
 d.

**Week 8 : ()**

Yes, the answer is correct.

Score: 1

**Week 10 : ()**

Accepted Answers:

- c.  
d.

**Week 12 : ()****1 point****Consider the following program.**

```
public class Test{
    public static void main(String[] args){
        int a = 5;
        a +=6;
        switch(a-1){
            case 5: System.out.print("10");break;
            case 10: System.out.print("15");
                System.out.print((a%2 ==0) ? "-even-" : "-odd-");
            default: System.out.print(a%2);    }
        }
    }
```

**What will be the output of the program if it is executed?**

- a. 15-even-1  
b. 15-odd-1  
c. 15-even-  
d. 15-odd-

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- b.

6)

**1 point**

```
C:\new>javac Simple.java
'javac' is not recognized as an internal or external command,
operable program or batch file.
```

Why does the error “javac is not recognized as an internal or external command” occur?

- a. Path is not set for java
- b. JDK is not correctly installed
- c. .class file is not found
- d. javac jar is missing from java library

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

7)

1 point

Following is a piece of code where some parts of a statement is missing:

```
public class Question{
    public static void main(String args[]){
        char npTEL[]={'1','2','3','4','5','6'};
        System.out.print(_____);
    }
}
```

In the following, some options are given. You have to choose the correct option(s) for the argument in *System.out.print()* function to print the value **102**.

- a. npTEL[npTEL.length-2] + npTEL[0]
- b. npTEL[0] + npTEL[npTEL.length-2]
- c. "" + npTEL[npTEL.length-2] + npTEL[0]
- d. "" + npTEL[0] + npTEL[npTEL.length-2]

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.  
b.

8) Which of the following concept that Java doesn't support? *1 point*

- a. inheritance
- b. serialization
- c. goto
- d. array

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

9) *1 point*

The subsystem of JVM that is used to load class files is known as \_\_\_\_\_.

- a. Classloader
- b. JRE
- c. JDK
- d. Compiler

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

10) *1 point*

What is the value of total after executing the following code snippet?

```
int mark = 5;
int grace = 2;
int total = mark + (mark > 6 ? ++grace : --grace);
```

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

- a.
- b.
- c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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**Course outline**

**How does an  
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work? ()**

**Week 0 : ()****Week 1 : ()****Week 2 : ()**

○ Lecture 06 :  
Demonstration-  
II (unit?  
unit=26&lesson=27)

○ Lecture 07 :  
Encapsulation  
(unit?  
unit=26&lesson=28)

○ Lecture 08 :  
Demonstration-  
III (unit?  
unit=26&lesson=29)

○ Lecture 09 :  
Java  
Programming  
Insights (unit?  
unit=26&lesson=30)

# Week 2 : Assignment 2

**The due date for submitting this assignment has passed.****Due on 2023-02-08, 23:59 IST.****Assignment submitted on 2023-01-30, 21:56 IST**

1)

**1 point****Following is a program given for this question.**

```
public class Question{
    public static void main(String[] args){
        int[] x = {222, 210, 012};
        for(int i = 0; i < x.length; i++){
            System.out.print(x[i] + "");
        }
    }
}
```

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

- a. 22221010
- b. 12222101
- c. 22101010
- d. 22221012

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

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

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
a.

2)

**1 point**

**When an array is passed to a method, what value does the method receive?**

- a. Reference of the array.
- b. Copy of the array.
- c. First element in the array.
- d. Length of the array.

Quiz: Week 2  
: Assignment  
2  
(assessment?  
name=153)

Week 2 :  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment?  
name=154)

Week 2 :  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment?  
name=155)

Week 2 :  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment?  
name=156)

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
a.

Week 2 :  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment?  
name=157)

Week 2 :  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment?  
name=158)

**1 point**

Following is a program given for this question.

```
public class Main{
    public static void main(String args[]){
        byte x = 28;
        x++;
        x++;
        System.out.print(x);
    }
}
```

Week 2  
Feedback  
Form (unit?  
unit=26&lesson=32)

Assignment 2  
Solution (unit?  
unit=26&lesson=33)

What will be the output of the above program?

- a. 28
- b. -29
- c. 30
- d. -31

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

**Week 3 : ()**

**Week 4 : ()**

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

**Week 5 : ()**

**Week 6 : ()**

4)

**1 point**

[Week 7 : \(\)](#)[Week 8 : \(\)](#)[Week 9 : \(\)](#)[Week 10 : \(\)](#)[Week 11 : \(\)](#)[Week 12 : \(\)](#)[DOWNLOAD  
VIDEOS \(\)](#)[Books \(\)](#)[Text  
Transcripts \(\)](#)**How many bits are needed for float and double in Java, respectively?**

- a. 32 and 64
- b. 32 and 32
- c. 64 and 64
- d. 64 and 32

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

5) **1 point**

**Which of the following is a valid *automatic type conversion* in Java?**

- a. short to byte
- b. float to long
- c. int to short
- d. int to long

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

6) **1 point**

**Consider the following program and identify the output.**

```
public class Question{
    public static void main(String[] args){
        short x = 10;
        x = x * 5;
        System.out.print(x);
    }
}
```

- a. 5
- b. 10
- c. 50
- d. Compilation error

- a.

- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

7)

**1 point**

Which of the following is a valid declaration of an object of class say, Student?

- a. Student obj = new Student;
- b. Student obj = new Student();
- c. obj = new Student();
- d. new Student obj;

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

8)

**1 point**

What is the output of the following program?

```
public class Question{
    public static void main(String[] args){
        int[] A = {0,1,2};
        for(int i = 0; i < A.length; i++){
            A[i] = A[(A[i] + 3) % A.length];
        }
        for(int i = 0; i < A.length; i++){
            System.out.print(A[i]);
        }
    }
}
```

- a. 210
- b. 120
- c. 012
- d. 201

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

9)

**1 point**

**Consider the following piece of code.**

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

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

- a. java
- b. npteljava
- c. nptel java
- d. nptel

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

10)

**1 point**

**What is the output of the following program?**

```
public class Main{
    public void static main(String args[]){
        char a = '3';
        int b = 011;
        System.out.println(a+b);
    }
}
```

- a. 60
- b. 3011
- c. 33
- d. Compilation error

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.



X



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## Course outline

How does an  
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Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

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

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

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

Lecture 14 :  
Demonstration-

# Week 3 : Assignment 3

The due date for submitting this assignment has passed.

Due on 2023-02-15, 23:59 IST.

Assignment submitted on 2023-02-05, 23:50 IST

1)

**1 point**

**Which of the following statement(s) is/are correct about the constructor?**

- a. Constructors cannot be synchronized in Java.
- b. Java does not provide a default copy constructor.
- c. A constructor cannot be overloaded.
- d. “this” or “super” can be used in a constructor.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

d.

2)

**1 point**

VI (unit?  
unit=34&lesson=38)

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

● Quiz: Week 3  
: Assignment  
3  
(assessment?  
name=159)

● Week 3 :  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment?  
name=148)

● Week 3 :  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment?  
name=149)

● Week 3 :  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment?  
name=150)

● Week 3 :  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment?  
name=151)

● Week 3 :  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment?  
name=152)

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

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

**Week 4 : ()**

**Week 5 : ()**

**Week 6 : ()**

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

- 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:

a.

b.

c.

3)

**1 point**

### Consider the following piece of code.

```
class Test{
    void exam() {}  
  
public class Test1 extends Test {
    _____ void exam(){} // insert correct keyword
    public static void main(String[] args) {
        System.out.println(" Correct");
    }
}
```

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

- a. abstract
- b. final
- c. default
- d. public

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

d.

[Week 7 : \(\)](#)[Week 8 : \(\)](#)[Week 9 : \(\)](#)[Week 10 : \(\)](#)[Week 11 : \(\)](#)[Week 12 : \(\)](#)[DOWNLOAD  
VIDEOS \(\)](#)[Books \(\)](#)[Text  
Transcripts \(\)](#)**4) How many instances of abstract class can be created?****1 point**

- a. 0
- b. 1
- c. 2
- d. Multiple

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

**5)****1 point****Structuring a Java class such that only methods within the class can access its instance variables is referred to as \_\_\_\_\_.**

- a. object orientation
- b. inheritance
- c. platform independence
- d. encapsulation

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

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.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

c.

7)

**1 point**

**Consider the following piece of code.**

```
public class Question{
    Question() {
        this();
    }

    public static void main(String []args) {
        Question obj = new Question();
        System.out.println("Java");
    }
}
```

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

a. Java

b. There will be a compile-time error.

c. JavaJava.

d. The program will give a runtime error.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

8)

**1 point**

**Consider the following program.**

```
public class Question
{
    public static void main(String[] args) {
        String str = "Programming in java.";
        System.out.println(str.charAt(4)+str.substring(8, 11));
    }
}
```

**What is the output of the above program?**

a. java

b. ring

c. r min

d. gram

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

9)

**1 point**

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

- 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 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:

c.

10)

**1 point**

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

- a. Static methods in interfaces are never inherited.
- b. 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.
- c. You can prevent a class from being subclassed by using the final keyword in the class's declaration.
- d. An abstract class can only be subclassed; it cannot be instantiated.

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

c.

d.



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How does an  
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Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

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

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

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

- Lecture 19 : Demonstration-

## Week 4 : Assignment 4

The due date for submitting this assignment has passed.

**Due on 2023-02-22, 23:59 IST.**

**Assignment submitted on 2023-02-15, 21:19 IST**

1)

**1 point**

**Which of the following is the correct statement for creating a package?**

- <package name> package;
- package <package name>;
- package;
- <package name>;

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

2)

**1 point**

**Which of the following source files cannot be included in a package?**

- classes
- interfaces
- enumerations
- data

VIII (unit?  
unit=42&lesson=46)

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

○ Lecture 20 :  
Interface-I  
(unit?  
unit=42&lesson=47)

Yes, the answer is correct.  
Score: 1

● Quiz: Week 4  
: Assignment  
4  
(assessment?  
name=160)

Accepted Answers:  
d.

3)

1 point

### Which of the following is/are used to access a *public* package?

- a. Refer to the member by its fully qualified name
- b. Import the package member
- c. Import the member's entire package
- d. Import is not mandatory

● Week 4 :  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment?  
name=161)

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

● Week 4 :  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment?  
name=162)

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
a.

● Week 4 :  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment?  
name=163)

b.

● Week 4 :  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment?  
name=164)

c.

1 point

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

- a. Java packages are hierarchical.
- b. System.out.println() is a predefined java function.
- c. Java can have a nested class structure.
- d. The Java static keyword is a non-access modifier.

● Week 4 :  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment?  
name=165)

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

○ Feedback For  
Week 4 (unit?  
unit=42&lesson=48)

No, the answer is incorrect.  
Score: 0

○ Assignment 4  
Solution (unit?  
unit=42&lesson=49)

Accepted Answers:  
a.

Week 5 : ()

Week 6 : ()

Week 7 : ()

5)

1 point

Week 8 : ()

[Week 9 : \(\)](#)[Week 10 : \(\)](#)[Week 11 : \(\)](#)[Week 12 : \(\)](#)[DOWNLOAD VIDEOS \(\)](#)[Books \(\)](#)[Text Transcripts \(\)](#)

Consider the program given below.

```
public class Main{
    public static void main(String args[]){
        System.out.println(cos(2*PI));
    }
}
```

**What will be the output if the above program is executed?**

- a. It will give compile-time error
- b. It will give run-time error
- c. 1.0
- d. 3.14

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

6) 1 point

**Which of the following is the minimum requirement for executing a Java program?**

- a. JDK
- b. JRE
- c. JDK without JRE
- d. JRE without JDK

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.  
d.

7) 1 point

**Which of the following is required for developing a Java program?**

- a. JDK
- b. JRE
- c. JDK without JRE
- d. JRE without JDK

a.

- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

8) **Which of the following statement(s) is/are correct?** 1 point

- a. Java byte code is machine dependent.
- b. Java byte code is generated by the compiler.
- c. Java byte code is generated by the interpreter.
- d. Java byte code is machine independent.

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

d.

9) **Which of the following is an advantage of methods?** 1 point

- a. Code re-usability
- b. Platform independence.
- c. Fast execution of codes.
- d. Removes compilation error.

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

10)

1 point

**Consider the following programs:**

```
public class Main1{
    public static void main(String args[]){
        int number = 10;
        System.out.println(number++ + ++number);
    }
}
```

```
public class Main2{
    public static void main(String args[]){
        int number = 10;
        System.out.println(++number + number++);
    }
}
```

**Choose correct statement about the output of this code segment.**

- a. Both pre-increment and post-increment operators becomes pre-increment during print.
- b. Both pre-increment and post-increment operators becomes post-increment during print.
- c. Both *Main1* and *Main2* classes give the same output.
- d. Pre-increment and post-increment operators don't work during print.

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

X



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

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

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

# Week 5 : Assignment 5

The due date for submitting this assignment has passed.

Due on 2023-03-01, 23:59 IST.

Assignment submitted on 2023-02-22, 15:39 IST

1)

1 point

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

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

**Quiz: Week 5**  
**: Assignment**  
**5**  
**(assessment?**  
**name=171)**

Week 5 :  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment  
name=166)

Week 5 :  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment  
name=167)

Week 5 :  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment  
name=168)

Week 5 :  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment  
name=169)

Week 5 :  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment  
name=170)

Feedback For  
Week 5 (unit?  
unit=50&lesson=56)

Assignment 5  
Solution (unit?  
unit=50&lesson=57)

**Week 6 : ()**

**Week 7 : ()**

**Consider the following program.**

```
class Question{
    int i;
}

class Test extends Question{
    int j;
    void display(){
        super.i = j + 1;
        System.out.println(j + " " + i);
    }
}

public class Query{
    public static void main(String args[]){
        Test obj = new Test();
        obj.i=1;
        obj.j=2;
        obj.display();
    }
}
```

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

- a. 2 2
- b. 3 3
- c. 2 3
- d. 3 2

a.

b.

c.

d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

c.

**2) Consider the following piece of code.**

**1 point**

```
package java.util;

public interface EventListener
{}
```

**Which of the following statement(s) is/are true for the above code?**

- a. It is an empty interface.
- b. It is a tag interface.
- c. It is a marker interface.
- d. It is a nested interface.

**Week 8 : ()**

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

**Week 9 : ()**

Yes, the answer is correct.

Score: 1

**Week 10 : ()**

Accepted Answers:

- a.
- b.
- c.

**Week 11 : ()**

3)

**1 point****What is the output of the following code?**

```
interface A {
    int x=10;
    void m1();
}

class B implements A {
int x = 20;
public void m1(){
    System.out.println("java");
}
}

public class Test {
public static void main(String[] args) {
A a = new B();
a.m1();
System.out.println(a.x);
}
}
```

- a. java  
10
- b. java  
20
- c. 10  
java
- d. 20  
java

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a.

4)

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

- a. All abstract methods defined in an interface must be implemented.
- b. The variables defined inside an interface are static and final by default.
- c. An interface is used to achieve full abstraction.
- d. Inside an interface, a constructor can be called using the super keyword with hierarchy.

a  
 b  
 c  
 d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a  
b  
c

5)

**Which of the following statement(s) is/are true?****1 point**

- 1. A class can extend more than one class.
  - 2. A class can extend only one class but many interfaces.
  - 3. An interface can extend many interfaces.
  - 4. An interface can implement many interfaces.
  - 5. A class can extend one class and implement many interfaces.
- a. 1 and 2
  - b. 2 and 4
  - c. 3 and 5
  - d. 3 and 4

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

6)

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

- a. Abstract class can have abstract and non-abstract methods.
- b. Abstract class can have final, non-final, static and non-static variables.
- c. Interface has only static and final variables.
- d. Interface can provide the implementation of an abstract class.

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

Partially Correct.  
Score: 0.67

Accepted Answers:

- a.
- b.
- c.

7)

**1 point**

**Consider the following piece of code.**

```
public class Question {  
    public static void main(String args[]) {  
        try {  
            int a, b;  
            b = 0;  
            a = 25 / b;  
            System.out.print("A"); }  
        catch(ArithmeticException e) {  
            System.out.print("B"); }  
        finally  
        {  
            System.out.print("C"); } } }
```

**What is the output of the above code?**

- a. A
- b. B
- c. BC
- d. AC

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

Yes, the answer is correct.  
Score: 1

Accepted Answers:

- c.

8) The class at the top of exception class hierarchy is ..... 1 point

- a. Object
- b. Throwable
- c. Exception
- d. ArithmeticException

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

9) Which of these class is superclass of every class in Java? 1 point

- a. Object class
- b. Abstract class
- c. String class
- d. ArrayList class

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

10) 1 point

```
interface calculate{
    int VAR = 0;
    void cal(int item);
}

class display implements calculate{
    int x;
    public void cal(int item){
        if (item<2)
            x = VAR;
        else
            x = item * item;
    }
}

public class Question {
    public static void main(String args[]){
        display[] arr=new display[3];
        for(int i=0;i<3;i++)
            arr[i]=new display();
        arr[0].cal(0);
        arr[1].cal(1);
        arr[2].cal(2);
        System.out.print(arr[0].x+" "+arr[1].x+" "+arr[2].x);
    }
}
```

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

- a. 0 1 2
- b. 0 0 4
- c. 0 2 4
- d. 0 4 4

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

Yes, the answer is correct.

Score: 1

Accepted Answers:  
b.



X



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● Lecture 26 :  
Demonstration-  
X (unit?  
unit=58&lesson=59)

● Lecture 27 :  
Multithreading-  
I (unit?  
unit=58&lesson=60)

● Lecture 28 :  
Multithreading-

## Week 6 : Assignment 6

The due date for submitting this assignment has passed.

**Due on 2023-03-08, 23:59 IST.**

Assignment submitted on 2023-03-08, 08:34 IST

1)

**1 point**

**Which of the following is NOT TRUE in Java?**

- a. Every thread has a priority.
- b. JVM allows multiple threads of execution running concurrently.
- c. Threads with higher priority are executed first.
- d. You cannot set a maximum priority value that a thread can have.

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

2)

**1 point**

II (unit?  
unit=58&lesson=61)

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

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

● Quiz: Week 6  
: Assignment  
6  
(assessment?  
name=177)

● Week 6 :  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment?  
name=172)

● Week 6 :  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment?  
name=173)

● Week 6 :  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment?  
name=174)

● Week 6 :  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment?  
name=175)

● Week 6 :  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment?  
name=176)

○ Feedback For  
Week 6 (unit?  
unit=58&lesson=178)

○ Assignment 6  
Solution (unit?  
unit=58&lesson=65)

### Consider the following code:

```
class PrimeRun implements Runnable {  
    long minPrime;  
    PrimeRun(long minPrime) {  
        this.minPrime = minPrime;  
    }  
  
    public void run() {  
        // compute primes larger than minPrime  
        . . .  
    }  
}
```

### Which of the following is TRUE regarding the above code?

- a. Creating a thread in Java using Runnable interface
- b. Thread creation by declaring a class to be a subclass of Thread
- c. Overriding the run method of class Thread
- d. The class implements the run method.

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

- a.  
d.

1 point

### Which of the following cannot be used to create an instance of Thread?

- a. By implementing the Runnable interface.
- b. By extending the Thread class.
- c. By creating a new class named Thread and calling method run().
- d. By importing the Thread class from the related package.

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

- c.  
d.

Week 7 : ()

4)

0 points

[Week 8 : \(\)](#)[Week 9 : \(\)](#)[Week 10 : \(\)](#)[Week 11 : \(\)](#)[Week 12 : \(\)](#)[DOWNLOAD VIDEOS \(\)](#)[Books \(\)](#)[Text Transcripts \(\)](#)**Which method start() will do which of the following?**

- a. Causes this thread to begin execution.
- b. Either start the execution for new thread or pause an ongoing thread.
- c. The JVM calls the run method of this thread.
- d. Recovers a thread from deadlock and begin execution

a.  
 b.  
 c.  
 d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

- d.  
5)

**1 point**

**Which method start() will do which of the following?**

- a. Causes this thread to begin execution.
- b. Either start the execution for new thread or pause an ongoing thread.
- c. The JVM calls the run method of this thread.
- d. Recovers a thread from deadlock and begin execution

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a.  
c.

6)

**1 point**

**Which of the following is not platform independent in Java?**

- a) Everything in Java thread is platform dependent.
- b) The thread constructor with the stackSize parameter is platform dependent.
- c) The inheritance in java is platform dependent as multiple classes are involved.
- d) There is no platform dependency in Java.

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

7)

**0 points****The following is a simple program using the concept of thread.**

```
public class Question extends Thread{
    public void run(){
        for(int i=1;i<5;i++){
            System.out.println(++i);
        }
    }
    public static void main(String args[]){
        Question t1=new Question();
        t1.run();
    }
}
```

**What is the output of the above program?**

- a. 1  
3
- b. 2  
4  
6  
8
- c. Runtime error
- d. 2  
4

 a. b. c. d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

8)

**1 point****For the program given below, what will be the output after its execution?**

```
public class Main{
    public static void main(String[]args){
        Thread thread=Thread.currentThread();
        thread.run();
        System.out.print(thread.activeCount());
    }
}
```

- a. 1
- b. 10
- c. 01
- d. 11

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

9)

**1 point**

**Which of the following method returns a reference to the currently executing thread object?**

- a. public static boolean interrupted()
- b. public static Thread currentThread()
- c. public final boolean isAlive()
- d. public final void suspend()

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

**1 point**

**Which of the following methods can be used to reduce over-utilization of CPU?**

- a. public static void yield()
- b. public static void main(String args[])
- c. public static void sleep(long millis)
- d. public void start()

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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

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

# Week 7 : Assignment 7

The due date for submitting this assignment has passed.

Due on 2023-03-15, 23:59 IST.

Assignment submitted on 2023-03-04, 19:17 IST

1) Which of these is a type of IO stream in Java? 1 point

- a. Integer stream
- b. Short stream
- c. Byte stream
- d. Character stream

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

d.

2)

1 point

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

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

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

**Quiz: Week 7**  
: Assignment  
7  
(assessment?  
name=185)

Week 7 :  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment?  
name=179)

Week 7 :  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment?  
name=181)

Week 7 :  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment?  
name=182)

Week 7 :  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment?  
name=183)

Week 7 :  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment?  
name=184)

Feedback For  
Week 7 (unit?  
unit=66&lesson=72)

Assignment 7  
Solution (unit?  
unit=66&lesson=73)

### Which of the following is a class in `java.io` package?

- a. `FileReader`
- b. `ObjectInput`
- c. `ObjectOutput`
- d. `DataInput`

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

Yes, the answer is correct.  
Score: 1

Accepted Answers:

- a.
- 3)

**1 point**

### Consider the following program.

```
import java.io.*;
public class Question {
    public static void main(String[] args)
    {
        try {
            PrintWriter writer = new PrintWriter(System.out);
            writer.write(64+'2');
            writer.close();
        }
        catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

### What will be the output if the above program is executed?

- a. It will give compile-time error.
- b. B
- c. 66
- d. r

- a.
- b.
- c.

- d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:

- d.

- 4)

**1 point**

[Week 8 : \(\)](#)[Week 9 : \(\)](#)[Week 10 : \(\)](#)[Week 11 : \(\)](#)[Week 12 : \(\)](#)[DOWNLOAD VIDEOS \(\)](#)[Books \(\)](#)[Text Transcripts \(\)](#)

**Consider the following program.**

```
import java.io.*;
public class files
{
    public static void main(String args[])
    {
        File obj = new File("java/programm/2023");
        System.out.print(obj.getName());
    }
}
```

**What is the output of the above code?**

- a. java/programm/2023
- b. java/programm/
- c. java
- d. 2023

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

5)

**1 point**

**Which method is used to read b length bytes from the input stream into an array?**

- a. public void read(int b) throws IOException{}
- b. public int read(byte[ ] b) throws IOException{}
- c. public void read(byte[ ] b) throws IOException{}
- d. public int read(int b) throws IOException{}

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

6)

**How many standard streams Java can support?**

**1 point**

- a. 2
- b. 3
- c. 4
- d. 1

- a.

- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

7) **Which of the following stream is different from others?** 1 point

- a. System.in
- b. System.out
- c. PrintStream
- d. FileOutputStream

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

8) 1 point

**Which of the following is used to read a string from the input stream?**

- a. get()
- b. readLine()
- c. getLine()
- d. read()

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

9) 1 point

**Which of the following class(es) can be used for handling files in Java?**

- a. java.files
- b. java.io.File
- c. java.io
- d. java.Filehandling

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

**1 point**

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

- a. The default delimiters for a Scanner object are the white space characters.
- b. The Scanner class has instance methods for reading each of the Java primitive types except char.
- c. The Scanner methods do not throw any checked exceptions.
- d. The Scanner class can be found in the java.util package.

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

Partially Correct.

Score: 0.75

Accepted Answers:

a.  
b.  
c.  
d.

X



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Week 6 : ()

Week 7 : ()

Week 8 : ()

● Lecture 36 :  
Applet  
Programming -  
III (unit?  
unit=74&lesson=75)

● Lecture 37 :  
Demonstration

## Week 8 : Assignment 8

The due date for submitting this assignment has passed.

**Due on 2023-03-22, 23:59 IST.**

**Assignment submitted on 2023-03-12, 20:11 IST**

1)

**1 point**

Which of the following is NOT a class of **java.awt package**?

- a. Color
- b. Composite
- c. Container
- d. Cursor

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

2)

**1 point**

Which of the following is/are NOT an exception of **java.awt package**?

- a. HeadlessException
- b. AWTException
- c. FontFormatException
- d. IllegalStateException

- XIII (unit?  
unit=74&lesson=76)

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

● Lecture 38 :  
Demonstration  
- XIV (unit?  
unit=74&lesson=77)

Yes, the answer is correct.  
Score: 1

● Lecture 39 :  
AWT  
Programming -  
I (unit?  
unit=74&lesson=78)

Accepted Answers:  
d.

3)

**1 point**

### Which of the following method is/are of class JButton in java.awt package ?

● Lecture 40 :  
AWT  
Programming -  
II (unit?  
unit=74&lesson=79)

- a. `getLabel()`
- b. `setLabel(String label)`
- c. `getCurrent()`
- d. `getItem(int index)`

● Quiz: Week 8  
: Assignment  
8  
(assessment?  
name=186)

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

● Week 8 :  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment?  
name=187)

Yes, the answer is correct.  
Score: 1

Accepted Answers:

- a.
- b.

● Week 8 :  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment?  
name=188)

4)

**1 point**

### Which of the following is TRUE about the following GUI?

● Week 8 :  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment?  
name=189)



- 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.

● Week 8 :  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment?  
name=190)

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

● Week 8 :  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment?  
name=191)

Yes, the answer is correct.

○ Feedback For  
Week 8 (unit?  
unit=74&lesson=80)

Assignment 8  
Solution (unit?  
unit=74&lesson=81)

**Week 9 : ()**

**Week 10 : ()**

**Week 11 : ()**

**Week 12 : ()**

**DOWNLOAD  
VIDEOS ()**

**Books ()**

**Text**

**Transcripts ()**

Score: 1

Accepted Answers:  
d.

5)

**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.

6)

**1 point**

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

- a. A check box can 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:  
a.  
b.

7)

**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.

8)

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.

 a. b. c. d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

9)

1 point

**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.

10)

1 point

**If setText(String text) is a method of Label class, then why it is called non editable?**

- a. Because user-input is unavailable during runtime.
- b. A Label is just a TextField with non-editable property turned on.
- c. Labels are editable by default.
- d. setText(String text) is not a method of Label class.

 a. b.

c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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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  
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online  
course  
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

Week 6 : ()

Week 7 : ()

Week 8 : ()

Week 9 : ()

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

# Week 9 : Assignment 9

The due date for submitting this assignment has passed.

**Due on 2023-03-29, 23:59 IST.**

**Assignment submitted on 2023-03-23, 14:53 IST**

1)

**1 point**

**Which of the following is/are correct regarding events in Java?**

- a. *EventObject* is super class of all the events.
- b. *AdjustmentEvent* will be notified if scroll bar is manipulated.
- c. All the classes and methods required for even handling in Java is in *java.io* package.
- d. *getID()* method can be used to determine the name of an event.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

2)

**1 point**

**Which of the following classes is used to display a message dialog in Java Swing?**

- a. JOptionPane
- b. JDialog
- c. JMessageDialog
- d. JFrame

a.

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

- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

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

Accepted Answers:

- a.
- 3)

**1 point**

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

- a. AdjustmentEvent
- b. ActionEvent
- c. ContainerEvent
- d. ComponentEvent

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

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

**Quiz: Week 9**  
: Assignment  
9  
(assessment?  
name=192)

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
b.

**Week 9 :**  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment?  
name=193)

4)

**1 point**

### Which of the statements are correct about Swing programming?

- a. AWT is a heavyweight programming.
- b. Swing is heavyweight programming.
- c. Swing is lightweight programming.
- d. Both AWT and Swing are lightweight programming.

**Week 9 :**  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment?  
name=194)

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

**Week 9 :**  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment?  
name=195)

No, the answer is incorrect.

Score: 0

Accepted Answers:  
c.

**Week 9 :**  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment?  
name=196)

**Week 9 :**  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment?  
name=197)

- Feedback For Week 9 (unit? unit=82&lesson=88)
- Assignment 9 Solution (unit? unit=82&lesson=89)

**Week 10 : ()****Week 11 : ()****Week 12 : ()****DOWNLOAD VIDEOS ()****Books ()****Text****Transcripts ()****5) Event class is defined in which of the following libraries? *1 point***

- a. java.io
- b. java.lang
- c. java.net
- d. java.util

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

**6) Which of the following is/are class(es) in javax.swing package? *1 point***

- a. BoxLayout
- b. MenuElement
- c. JComponent
- d. Scrollable

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.  
c.**7) Which of the following statement(s) is/are true? *1 point***

- a. Swing component **frame** does not support Window Listener.
- b. Swing component **combobox** does not support Window Listener.
- c. Swing component **checkbox** does not support Window Listener.
- d. Swing component **dialog** does not support Window Listener.

- a.
- b.
- c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

c.

8)

**1 point**

**A class which implements the ActionListener interface, also it must implement which of the following methods?**

- a. void handle( ActionEvent e )
- b. void actionPerformed( ActionEvent e )
- c. void eventDispatched( AWTEvent e )
- d. String getActionCommand( ActionEvent e )

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

9)

**1 point**

**When a component is added or removed, which of the following events is generated?**

- a. ComponentEvent
- b. ContainerEvent
- c. FocusEvent
- d. InputEvent

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

**1 point**

**Which of these packages contains all the event handling interfaces?**

- a. java.lang
- b. java.awt
- c. java.awt.event
- d. java.event

 a. b.

c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

X



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**Course outline**

**How does an  
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course  
work? ()**

**Week 0 : ()****Week 1 : ()****Week 2 : ()****Week 3 : ()****Week 4 : ()****Week 5 : ()****Week 6 : ()****Week 7 : ()****Week 8 : ()****Week 9 : ()****Week 10 : ()**

Lecture 46 :  
Demonstration-

# Week 10 : Assignment 10

**The due date for submitting this assignment has passed.****Due on 2023-04-05, 23:59 IST.****Assignment submitted on 2023-03-27, 12:09 IST**

1)

**1 point****Which of the following statement(s) is(are) true?**

- a. TCP is not reliable.
- b. UDP is most reliable.
- c. TCP is fast and UDP is slow.
- d. In HTTPS, all communication between two computers are encrypted.

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

2)

**1 point**

XVII (unit?  
unit=90&lesson=91)

Lecture 47 :  
Demonstration-  
XVIII (unit?  
unit=90&lesson=92)

Lecture 48 :  
Networking  
with Java  
(unit?  
unit=90&lesson=93)

Lecture 49 :  
Demonstration-  
XIX (unit?  
unit=90&lesson=94)

Lecture 50 :  
JDBC - I (unit?  
unit=90&lesson=95)

Quiz: Week  
10 :  
Assignment  
10  
(assessment?  
name=198)

Week 10 :  
Programming  
Assignment 1  
(/noc23\_cs49/progassignment?  
name=199)

Week 10 :  
Programming  
Assignment 2  
(/noc23\_cs49/progassignment?  
name=200)

Week 10 :  
Programming  
Assignment 3  
(/noc23\_cs49/progassignment?  
name=201)

Week 10 :  
Programming  
Assignment 4  
(/noc23\_cs49/progassignment?  
name=202)

Week 10 :  
Programming  
Assignment 5  
(/noc23\_cs49/progassignment?  
name=203)

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

- a. DatagramSocket implements Object.
- b. DatagramSocket implements Closeable.
- c. DatagramSocket extends Object.
- d. DatagramSocket extends Closeable.
- e. DatagramSocket extends Object implements Closeable

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

Yes, the answer is correct.  
Score: 1

Accepted Answers:

e.

3)

1 point

### Which of the following is/are interface(s) present in java.net package?

- a. InterfaceAddress
- b. FileNameMap
- c. DatagramPacket
- d. DatagramSocket

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

Yes, the answer is correct.  
Score: 1

Accepted Answers:

b.

4)

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

1 point

- a. Addresses belongs to a Low-Level API.
- b. Sockets belong to High-Level API.
- c. URIs and URLs are Low-Level API.
- d. Interfaces are High-Level API.

- a.
- b.

Feedback For  
Week 10 (unit?  
unit=90&lesson=96)

- c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

Assignment 10  
Solution (unit?  
unit=90&lesson=97)

**Week 11 : ()**

5)

**1 point**

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

<https://nptel.ac.in>

- 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 website path.

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

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

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

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

7)

**1 point**

**What is true about IP:PORT in the following options?**

- a. Port number 21 is the default FTP port.
- b. Only port number is required for FTP connections and no IP is required.
- c. 127.0.0.1 and localhost are same.
- d. There is no concept of PORT in IPv6.

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a.
- c.

8)

**1 point**

**Which of the following is/are valid Data Definition Language (DDL) command(s)?**

- a. SELECT
- b. INSERT
- c. UPDATE
- d. ALTER TABLE

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- d.

9)

**1 point**

**In JDBC, all raw data types (including binary documents or images) should be read and uploaded to the database as an array of**

- a. byte
- b. vector
- c. char
- d. file

a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

10)

**1 point**

**The package, which is required to be imported for the JDBC programming?**

- a. java.net
- b. java.lang
- c. java.io
- d. java.sql

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

X



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**Course outline**

**How does an  
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online  
course  
work? ()**

**Week 0 : ()****Week 1 : ()****Week 2 : ()****Week 3 : ()****Week 4 : ()****Week 5 : ()****Week 6 : ()****Week 7 : ()****Week 8 : ()****Week 9 : ()****Week 10 : ()****Week 11 : ()**

# Week 11 : Assignment 11

**The due date for submitting this assignment has passed.****Due on 2023-04-12, 23:59 IST.****Assignment submitted on 2023-04-04, 12:27 IST****1)****1 point****Which of the following interfaces is used to manage transactions in JDBC?**

- a. Connection
- b. Statement
- c. Transaction
- d. ResultSet

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

**2)****1 point****Which of the following interfaces is used to execute parameterized SQL statements in JDBC?**

- a. ResultSet
- b. PreparedStatement
- c. Statement
- d. Connection

 a.

<ul style="list-style-type: none"> <li>● Lecture 51 : JDBC—II (unit? unit=98&amp;lesson=99)</li> </ul>	<input checked="" type="radio"/> b. <input type="radio"/> c. <input type="radio"/> d.	
<ul style="list-style-type: none"> <li>● Lecture 52 : JDBC—III (unit? unit=98&amp;lesson=100)</li> </ul>	Yes, the answer is correct. Score: 1 Accepted Answers: b.	
<ul style="list-style-type: none"> <li>● Lecture 53 : Demonstration —XX (unit? unit=98&amp;lesson=101)</li> </ul>	3)	<b>1 point</b>
<ul style="list-style-type: none"> <li>● Lecture 54 : Demonstration —XXI (unit? unit=98&amp;lesson=102)</li> </ul>	<b>Which of the following statements is true?</b> <ol style="list-style-type: none"> <li>a. The executeQuery() method of java.sql.Statement interface is used to execute a DELETE statement.</li> <li>b. The executeQuery() method of java.sql.Statement interface is used to execute a SELECT statement.</li> <li>c. The executeQuery() method of java.sql.Statement interface is used to execute a INSERT statement.</li> <li>d. The executeQuery() method of java.sql.Statement interface is used to execute a UPDATE statement.</li> </ol>	
<ul style="list-style-type: none"> <li>● Lecture 55 : Demonstration —XXII (unit? unit=98&amp;lesson=103)</li> </ul>	<input type="radio"/> a. <input checked="" type="radio"/> b. <input type="radio"/> c. <input type="radio"/> d.	
<ul style="list-style-type: none"> <li>● Quiz: Week 11 : Assignment 11 (assessment? name=204)</li> </ul>	Yes, the answer is correct. Score: 1 Accepted Answers: b.	
<ul style="list-style-type: none"> <li>● Week 11 : Programming Assignment 1 (/noc23_cs49/progassignment? name=205)</li> </ul>	<b>Which of the following statements is true?</b> <ol style="list-style-type: none"> <li>a. The executeUpdate() method of java.sql.Statement interface is used to execute a DELETE statement.</li> <li>b. The executeUpdate() method of java.sql.Statement interface is used to execute a SELECT statement.</li> <li>c. The executeUpdate() method of java.sql.Statement interface is used to execute a INSERT statement.</li> <li>d. The executeUpdate() method of java.sql.Statement interface is used to execute a UPDATE statement.</li> </ol>	<b>1 point</b>
<ul style="list-style-type: none"> <li>● Week 11 : Programming Assignment 2 (/noc23_cs49/progassignment? name=206)</li> </ul>	<input checked="" type="checkbox"/> a. <input type="checkbox"/> b. <input checked="" type="checkbox"/> c. <input checked="" type="checkbox"/> d.	
<ul style="list-style-type: none"> <li>● Week 11 : Programming Assignment 3 (/noc23_cs49/progassignment? name=207)</li> </ul>		
<ul style="list-style-type: none"> <li>● Week 11 : Programming Assignment 4 (/noc23_cs49/progassignment? name=208)</li> </ul>	<input checked="" type="checkbox"/> a. <input type="checkbox"/> b. <input checked="" type="checkbox"/> c. <input checked="" type="checkbox"/> d.	
<ul style="list-style-type: none"> <li>● Week 11 : Programming Assignment 5 (/noc23_cs49/progassignment? name=209)</li> </ul>	Yes, the answer is correct. Score: 1 Accepted Answers: a. c.	

Feedback For  
Week 11 (unit?  
unit=98&lesson=104)

Assignment 11  
Solution (unit?  
unit=98&lesson=105)

**Week 12 : ()**

**DOWNLOAD  
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**Books ()**

**Text  
Transcripts ()**

d.

5)

**1 point**

**Which of the following statements is true about JDBC?**

- a. JDBC is a programming language.
- b. JDBC is a type of database.
- c. JDBC is an API for accessing relational databases from Java programs.
- d. JDBC is used to create graphical user interfaces.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

6)

**1 point**

**Which of the following statements is true about the PreparedStatement interface in JDBC?**

- a. PreparedStatement objects are precompiled before they are executed.
- b. PreparedStatement objects can only be used for SELECT statements.
- c. PreparedStatement objects cannot accept parameters at runtime.
- d. PreparedStatement objects can be reused for multiple SQL statements.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

d.

7)

**1 point**

**Which of the following statements is true about batch updates in JDBC?**

- a. Batch updates can only be used for INSERT statements.
- b. Batch updates allow multiple SQL statements to be executed in a single transaction.
- c. Batch updates are executed immediately as soon as they are added to the batch.
- d. Batch updates can be rolled back.

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

d.

8)

**1 point**

**Consider the following code.**

```
import java.sql.*;
class InsertPrepared{
    public static void main(String args[]){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            Connection con=DriverManager.getConnection(
                "jdbc:mysql://localhost/database","Java","july");
            PreparedStatement stmt=con.prepareStatement("INSERT INTO
table VALUES(?,?)");
            stmt.setString(1,"one");
            stmt.setString(2,"two");
            stmt.executeUpdate();
            con.close();
        }
        catch(Exception e){
            System.out.println(e);
        }
    }
}
```

**What is the output of the above code?**

- a. Compilation error
- b. Runtime error
- c. 1, "one" is replaced by 2, "two" in the table.
- d. "one" and "two" both are inserted in different columns of same row.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

9)

**1 point**

**Which type of JDBC driver translates JDBC calls into native database API calls?**

- a. Type 1 driver
- b. Type 2 driver
- c. Type 3 driver
- d. Type 4 driver

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

**1 point**

**Which of the following method is static and synchronized in JDBC API?**

- a. `getConnection()`
- b. `prepareCall()`
- c. `executeUpdate()`
- d. `executeQuery()`

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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## Course outline

How does an  
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work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

Week 6 : ()

Week 7 : ()

Week 8 : ()

Week 9 : ()

Week 10 : ()

Week 11 : ()

# Week 12 : Assignment 12

The due date for submitting this assignment has passed.

**Due on 2023-04-19, 23:59 IST.**

**Assignment submitted on 2023-04-09, 23:25 IST**

1)

**1 point**

**Which statement is incorrect in case of using “this” keyword in a static method?**

- a. “this” keyword can be used in static method to access static variables only
- b. “this” keyword first needs to be defined by user
- c. “this” keyword cannot be used as a variable name
- d. “this” keyword can not be used in static method to access static variables only

 a.

 b.

 c.

 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

d.

2)

**1 point**

**Week 12 : ()**

Lecture 56 :  
Case Study - I  
(unit?  
unit=106&lesson=107)

Lecture 57 :  
Case Study - II  
(unit?  
unit=106&lesson=108)

Lecture 58 :  
Case Study - III  
(unit?  
unit=106&lesson=109)

Lecture 59 :  
Case Study - IV  
(unit?  
unit=106&lesson=110)

Lecture 60 :  
Case Study - V  
(unit?  
unit=106&lesson=111)

Quiz: Week 12 : Assignment 12  
(assessment? name=210)

Week 12 : Programming Assignment 1  
(/noc23\_cs49/progassignment? name=211)

Week 12 : Programming Assignment 2  
(/noc23\_cs49/progassignment? name=212)

Week 12 : Programming Assignment 3  
(/noc23\_cs49/progassignment? name=213)

Week 12 : Programming Assignment 4  
(/noc23\_cs49/progassignment? name=214)

Week 12 : Programming

**State whether the following statements are True or False.**

- i) A catch can not have comma-separated multiple arguments.**  
**ii) Throwing an Exception always causes program termination.**

- a. True, False  
b. False, True  
c. True, True  
d. False, False

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
a.

- 3) Which of the following contains only date and not time?**

**1 point**

- a. java.io.date  
b. java.sql.date  
c. java.util.date  
d. java.util.dateTime

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.  
Score: 1

Accepted Answers:  
b.

- 4) Why the applets are deprecated?**

**1 point**

- a. Applet are complicated to program  
b. Applet had severe security issues  
c. Applet was replaced by AWT  
d. Applet was resource intensive

Assignment 5  
 (/noc23\_cs49/progassignment?  
 name=215)  
 Feedback For  
 Week 12 (unit?  
 unit=106&lesson=113)

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

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Yes, the answer is correct.  
 Score: 1

Accepted Answers:  
 b.

5)

**1 point**

**Which of the following control expressions are valid for an if statement?**

- a. Any integer expression.
- b. 0 and 1 as integer.
- c. A String object.
- d. Any Boolean expression.

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

Yes, the answer is correct.  
 Score: 1

Accepted Answers:  
 d.

6) **Consider the following program:**

**1 point**

```
String animal = "GOAT";
switch(animal){
    break; System.out.println("DOMESTIC");
}
```

**What is the output of the Java program given above?**

- a. No output
- b. GOAT
- c. DOMESTIC
- d. Compiler error

- a.
- b.

- c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

7)

**1 point**

Consider the following program:

```
public class Question
{
    public static void main(String[] args) {
        String str = "january java nptel.";

        System.out.println(str.charAt(7)+str.substring(9,
14));
    }
}
```

**What is the output of the following program?**

- a. java  
b. ava  
c. y java  
d. ava n

- a.  
 b.  
 c.  
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

8)

**1 point**

**Which of the following are correct statement for array declaration?**

- a. float[] = new float(3);  
b. float f2[] = new float[];  
c. float[] f1 = new float[3];  
d. float f3[] = new float[3];

- a.  
 b.

- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- c.
- d.

9)

**1 point**

**Consider the following piece of code in Java.**

```
public class Test {  
    public static void aMethod() throws Exception {  
        try {  
            throw new Exception();  
        }  
        finally {  
            System.out.print("finally ");  
        }  
    }  
    public static void main(String args[]) {  
        try {  
            aMethod();  
        }  
  
        catch (Exception e) {  
            System.out.print("exception ");  
        } finally {  
            System.out.print("finally ");  
        }  
  
        System.out.print("finished ");  
    }  
}
```

**What is the result, if the above-mentioned program is executed?**

- a. finally
- b. finally exception finally finished
- c. finally exception finished
- d. Compilation fails

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

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

**1 point**

**Which is a component in AWT that can contain another components like buttons, textfields, labels etc.?**

a. Window

b. Panel

c. Container

d. Frame

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.