Unit 4 - Week 2 :

Course outline

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1 :

Week 2 :

- Lecture 06 : Demonstration-II
- Lecture 07 : Encapsulation
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- Lecture 09 : Java Programming Insights
- Lecture 10 : Demonstration-IV
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Week 3 :

Thank you for taking the Assignment 2.

Assignment 2

Your last recorded submission was on 2020-09-30, 09:40 IST   Due date: 2020-09-30, 23:59 IST.

1) **What is the output of the following program?**   *1 point*

```
public class Question
{
    public static void main(String[] args) {

        int i = 10;
        int n = i++%5;
        int m = ++i%5;
        System.out.println(i+n+m);
    }
}
```

     a.   14
     b.   13
     c.   15
     d.   11

🔵 a.
◯ b.
◯ c.
◯ d.

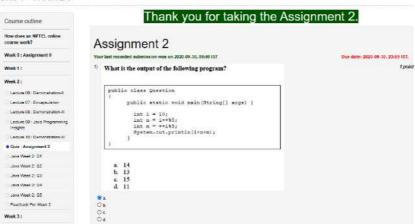**2)** **During constructor overloading, which of the following should be used in a parameterized constructor to call the default constructor?**   *1 point*

a. The parameterized constructor should be declared final in order for it to call the default constructor.

b. The this() reference should be used as the first statement inside the parameterized constructor.

c. The this() reference should be used anywhere inside the parameterized constructor.

d. It is not possible to implicitly call the default constructor from parameterized constructor.

○ a
◉ b
○ c
○ d

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

```
public class Main{
    public static void main(String[] args) {
        char[] copyFrom = { 'j', 'a', 'n', 'j', 'a', 'v', 'a',
                            'n', 'p', 't', 'e', 'l' };
        char[] copyTo = new char[9];

        System.arraycopy(copyFrom, 3, copyTo, 0, 9);
        System.out.println(new String(copyTo));
    }
}
```

What will be the output of the above program?

a. javanptel
b. npteljava
c. janjavanptel
d. janjavanp

◉ a
○ b
○ c
○ d

4) **Which of the following can be used to take input from user during the execution of a program?**

    a. Using the string array provided as a parameter to the main method.
    b. getText() method can be used to get user input from the command line.
    c. Scanner class can be used by passing the predefined object System.in
    d. Once the execution starts, there is no way to provide user input.

○ a
○ b
◉ c
○ d

5) **Which of the following is/are TRUE about print() and println() methods?**

    a. `print ()` prints in a single line only and multiple lines cannot be printed in any way.
    b. `println ()` prints and then appends a line break.
    c. `println ()` prints in a single line only and multiple lines cannot be printed.
    d. `print ()` prints and then appends a line break.

○ a
◉ b
○ c
○ d

6) **Which of the following is called when a method having the same name as that the name of the class where it is defined?**

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

○ a
○ b
◉ c
○ d

7) Which of the following is a valid declaration of an object of class, say Box?

   a. Box obj = new Box();
   b. Box obj = new Box;
   c. obj = new Box();
   d. new Box obj;

◉ a.
○ b.
○ c.
○ d.

8) Following is a program given for this question.

```
public class Question
{
        public static void main(String[] args) {

               boolean m=Integer.valueOf(1).equals(Long.valueOf(1));
               System.out.println(m);
        }
}
```

What will be the output of the above program?

   a. false
   b. true
   c. 0
   d. 1

◉ a.
○ b.
○ c.
○ d.

9) **What will happen during the execution of the following code for the command line input?**

```
public class Question {
    public static void main (String[] args) {
        for (String s: args) {
            System.out.println(s+args[0]);
        }
    }
}
```

Consider the following input on command line and select the options with the correct output(s).

Input:

A: "jan java nptel"
B: 1 2 3

a. A : jannptel
   javanptel
   nptelnptel
b. A : jan java nptel jan java nptel

c. B : 11
      21
      31
d. B : 1 2 3 1

- [ ] a.
- [x] b.
- [x] c.
- [ ] d.

What is the output of the following program?

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

    a.   60
    b.   3011
    c.   33
    d.   311

○ a.
● b.
○ c.
○ d.

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

Submit Answers