

## Course outline

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1 :

Week 2 :

Week 3 :

Week 4 :

Week 5 :

Week 6 :

Week 7 :

● Lecture 31 : I-O Stream-II

● Lecture 32 : I-O Stream-III

● Lecture 33 : Demonstration-XII

● Lecture 34 : Applet Programming - I

● Lecture 35 : Applet Programming - II

● Quiz: Assignment 7

● Java Week 7 : Q1

● Java Week 7: Q2

# Assignment 7

The due date for submitting this assignment has passed.

**Due on 2020-11-04, 23:59 IST.**

Assignment submitted on 2020-11-04, 17:29 IST

1) Which of the following cannot be used to read a text file in Java?

1 point

- a. BufferedReader
- b. FileReader
- c. Scanner
- d. Document

- ☐ a.
- ☐ b.
- ☐ c.
- ☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

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

1 point

- a. In unbuffered I/O, each read or write request is handled directly by the underlying OS.
- b. Buffered input streams read data from a memory area known as a buffer; the native input API is called only when the buffer is empty.
- c. Buffered output streams write data to a buffer, and the native output API is called only when the buffer is full.
- d. In buffered I/O scheme, each read or write request often triggers disk access, network activity.

● Java Week 7: Q3

● Java Week 7: Q4

● Java Week 7: Q5

● Feedback For Week 7

Week 8 :

Week 9 :

Week 10 :

Week 11 :

Week 12 :

Solution

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Text Transcripts

Programming Test - (April 11  
- 10AM - 12 PM)

Programming Test - (April 11  
- 8PM - 10 PM)

☒ a.

☒ b.

☒ c.

☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

c.

3) Which of the following is/are Standard Stream(s)?

1 point

a. System.in

b. System.out

c. System.err

d. System.console

☒ a.

☒ b.

☒ c.

☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

c.

4) Which of the following code is correct?

a.  
`FileWriter fileWriter = new FileWriter("../file.txt");  
File file = new File(fileWriter );  
BufferedWriter bufferedOutputWriter = new BufferedWriter(fileWriter);`

b.  
`BufferedWriter bufferedOutputWriter = new  
BufferedWriter("../file.txt");  
File file = new File(bufferedOutputWriter );  
FileWriter fileWriter = new FileWriter(file);`

c.  
`File file = new File("../file.txt");  
FileWriter fileWriter = new FileWriter(file);  
BufferedWriter bufferedOutputWriter = new BufferedWriter(fileWriter);`

d.  
`File file = new File("../file.txt");  
BufferedWriter bufferedOutputWriter = new BufferedWriter(file);  
FileWriter fileWriter = new FileWriter(bufferedOutputWriter );`

- ☐ a.  
☐ b.  
☒ c.  
☐ d.

Yes, the answer is correct.

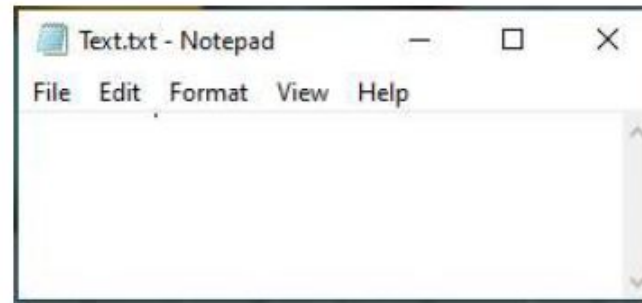
Score: 1

Accepted Answers:

c.

- 5) Assume that "Text.txt" file is already created in the root directory, which is shown below.

1 point



Consider the following program and choose the correct option.

```
import java.io.*;

public class Question6{
    public static void main(String[] args) {
        try ( RandomAccessFile rf =
            new RandomAccessFile("Text.txt", "r"); ) {
            int i = rf.readInt();
        }
        catch (FileNotFoundException ex) {
            System.out.println("File not found");
        }
        catch (IOException ex) {
            ex.printStackTrace();
        }
    }
}
```

- a. The program will not be compiled successfully.
- b. The program will be compiled successfully, but will encounter runtime exception
- c. The program produces an output "File not found".
- d. The program will be executed successfully, but doesn't produce any output.

- ☐ a.
- ☐ b.
- ☐ c.

☐ d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

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

1 point

- a. DataStreams detects an end-of-file condition by using EOFException, instead of testing for an invalid return value.
- b. DataStreams uses floating point numbers to represent monetary values.
- c. Data streams support I/O of primitive data types.
- d. Object streams support I/O of objects.

☒ a.

☒ b.

☒ c.

☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

c.

d.

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

1 point

```
public class Question14 {  
    public static void main(String args[]) {  
        System.out.println(args[5]);  
    }  
}
```

Consider the following input on command line.

Input:

A: Indian Institute of Technology

B: 1 2 3 4 5

C: Indian Institute of Technology Nptel

D: 1 2 3 4 5 6

- a. A : *Exception* `ArrayIndexOutOfBoundsException`  
B : *Exception* `ArrayIndexOutOfBoundsException`  
C : *Exception* `ArrayIndexOutOfBoundsException`  
D : *Exception* `ArrayIndexOutOfBoundsException`
- b. A : *Output* Technology  
B : *Output* 1 2 3 4 5  
C : *Exception* `ArrayIndexOutOfBoundsException`  
D : *Exception* `ArrayIndexOutOfBoundsException`
- c. A : *Exception* `ArrayIndexOutOfBoundsException`  
B : *Exception* `ArrayIndexOutOfBoundsException`  
C : *Output* Nptel  
D : *Exception* `ArrayIndexOutOfBoundsException`
- d. A : *Exception* `ArrayIndexOutOfBoundsException`  
B : *Exception* `ArrayIndexOutOfBoundsException`  
C : *Exception* `ArrayIndexOutOfBoundsException`  
D : *Output* 6

- ☐ a.  
☐ b.  
☐ c.  
☒ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

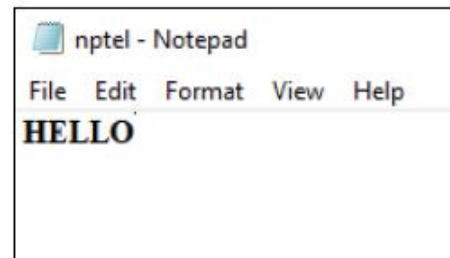
8) Consider the following program.

1 point



```
import java.io.*;
public class TestIO {
public static void main(String[] args) throws IOException {
    BufferedReader br=new BufferedReader(new
    FileReader("nptel.txt"));
    String str;
    int c=0;
    while((str=br.readLine())!=null) {
        c=c+1;
        System.out.println(str.charAt(1));
    }
    System.out.println(c);
}
}
```

The file **nptel.txt** when browse with the Notepad text editor, it shows the content, which is shown below.



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

- a. E  
1
- b. E  
5
- c. N  
1
- d. L  
5

- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

9) Which of the following classes can be used to implement the input stream that uses a character array as the source?

1 point

- a. BufferedReader
- b. FileReader
- c. CharArrayReader
- d. FileArrayReader

- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

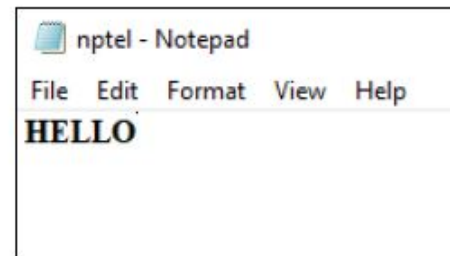


10) Consider the following program.

```
import java.io.*;

public class FileInfo {
    public static void main(String args[]) {
        File f = new File("nptel.txt");
        System.out.println("length: " + f.length());
    }
}
```

The file **nptel.txt** when browse with the Notepad text editor, it shows the content, which is shown below.



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

- a. length: 6
- b. length: 5
- c. length: 0
- d. length: 1

- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.