by Kunal Sir

Assignment: File Handling

Part A: MCQ's

1. Which class is used to create a file in Java?

A. Scanner
B. File
C. FileInputStream
D. FileReader

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2. Which method is used to create a new file?

A. create()
B. makeFile()
C. createNewFile()
D. newFile()

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3. Which package contains file handling classes in Java?

A. java.util
B. java.lang
C. java.io
D. java.file

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4. Which method checks whether a file exists?

A. isPresent()
B. available()
C. exists()
D. check()

CJC Complete Java Classes

5. Which class is used to write data into a file in byte format?

A. FileReader
B. FileWriter
C. FileOutputStream
D. Scanner

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6. Which class is used to read data from a file in byte format?

A. FileReader
B. FileInputStream
C. Scanner
D. FileWriter

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7. What does `file.length()` return?

A. Number of lines
B. File size in KB
C. File size in bytes
D. Number of characters

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8. Which method checks whether a file can be read?

A. canWrite()
B. isRead()
C. canRead()
D. readable()

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9. Which method checks whether a file can be written?

A. isWritable()
B. canWrite()
C. writeCheck()
D. writable()

10. Which method deletes a file in Java?

A. remove()
B. deleteFile()
C. delete()
D. erase()

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11. What does `getName()` method return?

A. File path
B. Absolute path
C. File size
D. File name

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12. Which method returns the absolute path of a file?

A. getPath()
B. getFilePath()
C. getAbsolutePath()
D. getLocation()

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13. Which method checks whether a path is a directory?

A. isFile()
B. isDirectory()
C. isFolder()
D. checkDir()

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14. Which class is used to read a file line by line (without buffered classes)?

A. BufferedReader
B. FileReader
C. Scanner
D. DataInputStream

15. Which constructor is used to append data to a file?

A. FileOutputStream("file.txt")
B. FileOutputStream("file.txt", true)
C. FileWriter("file.txt")
D. Scanner("file.txt")

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16. What happens if `createNewFile()` is called on an existing file?

A. File is deleted
B. File is overwritten
C. Returns false
D. Throws error

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17. Which method is used to check whether a path is a file?

A. isDirectory()
B. isFile()
C. isPath()
D. exists()

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18. Which stream is used to copy data from one file to another?

A. FileReader & FileWriter
B. Scanner & PrintWriter
C. FileInputStream & FileOutputStream
D. DataInputStream & Scanner

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19. What is the return type of `exists()` method?

A. int
B. String
C. boolean
D. void

20. Which exception is commonly handled in file handling programs?

A. ArithmeticException
B. IOException
C. NullPointerException
D. ArrayIndexOutOfBoundsException

Part B: Problem Statement

1. Create a File

Problem Statement:
Write a Java program to create a new file named `sample.txt`. If the file already exists, the program should display a message saying that the file already exists. If the file does not exist, it should be created successfully.

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2. Check Whether File Exists

Problem Statement:
Write a Java program to check whether a file named `data.txt` exists in the given location. The program should print a message indicating whether the file is present or not.

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3. Write Text into a File

Problem Statement:
Write a Java program to create a file named `hello.txt` and write the text "Hello Java" into that file. After writing, display a confirmation message.

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4. Read Text from a File

Problem Statement:
Write a Java program to read the contents of a file named `hello.txt` and display the text on the console.

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5. Append Text to an Existing File

Problem Statement:
Write a Java program to add the text "Welcome to File Handling" at the end of an existing file without removing or overwriting the old content.

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6. Read File Line by Line

Problem Statement:
Write a Java program to read a text file line by line and print each line separately on the console.

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7. Count Number of Lines in a File

Problem Statement:
Write a Java program to count how many lines are present in a given text file and display the total count.

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8. Check Read Permission of a File

Problem Statement:
Write a Java program to check whether a file has permission to be read. Display a message indicating whether the file is readable or not.

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9. Check Write Permission of a File

Problem Statement:
Write a Java program to check whether a file has permission to be written. Display a message indicating whether the file is writable or not.

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10. Check Whether Path is File or Directory

Problem Statement:
Write a Java program to check whether a given path refers to a file or a directory. Display an appropriate message based on the result.

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11. Display File Size

Problem Statement:
Write a Java program to find and display the size of a file in bytes.

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12. Display File Name and Absolute Path

Problem Statement:
Write a Java program to display the name of a file and its absolute path on the system.

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13. Read Only the First Line of a File

Problem Statement:
Write a Java program to read and display only the first line of a given text file.

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14. Copy Content from One File to Another

Problem Statement:
Write a Java program to copy the content of one file into another file. The destination file should contain the same content as the source file.

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15. Delete a File

Problem Statement:
Write a Java program to delete a file named `old.txt`. Display a message showing whether the file was deleted successfully or not.

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