**SAINIK SCHOOL GOPALGANJ**

**SUB: COMPUTER SCIENCE**

**CLASS - XII**

**ASSIGNMENT**

**Lesson: 4: Data File handling**

**A. (Q1 to Q10) There are four options against each question. Choose the option which you consider the most appropriate as your answer.**

1. To open a file c:\scores.txt for reading, we use

a) infile = open(“c:\scores.txt”, “r”)

b) infile = open(“c:\\scores.txt”, “r”)

c) infile = open(file = “c:\scores.txt”, “r”)

d) infile = open(file = “c:\\scores.txt”, “r”)

2. To open a file c:\scores.txt for writing, we use

a) outfile = open(“c:\scores.txt”, “w”)

b) outfile = open(“c:\\scores.txt”, “w”)

c) outfile = open(file = “c:\scores.txt”, “w”)

d) outfile = open(file = “c:\\scores.txt”, “w”)

3. To open a file c:\scores.txt for appending data, we use

a) outfile = open(“c:\\scores.txt”, “a”)

b) outfile = open(“c:\\scores.txt”, “rw”)

c) outfile = open(file = “c:\scores.txt”, “w”)

d) outfile = open(file = “c:\\scores.txt”, “w”)

4. Which of the following statements are true?

a) When you open a file for reading, if the file does not exist, an error occurs

b) When you open a file for writing, if the file does not exist, a new file is created

c) When you open a file for writing, if the file exists, the existing file is overwritten with the new file

d) All of the mentioned

5. To read two characters from a file object infile, we use

a) infile.read(2)

b) infile.read()

c) infile.readline()

d) infile.readlines()

6. To read the entire remaining contents of the file as a string from a file object infile, we use

a) infile.read(2)

b) infile.read()

c) infile.readline()

d) infile.readlines()

7. What is the output?

f = None

for i in range (5):

with open("data.txt", "w") as f:

if i > 2:

break

print(f.closed)

a) True

b) False

c) None

d) Error

8. To read the next line of the file from a file object infile, we use

a) infile.read(2)

b) infile.read()

c) infile.readline()

d) infile.readlines()

9. To read the remaining lines of the file from a file object infile, we use

a) infile.read(2)

b) infile.read()

C) infile.readline()

d) infile.readlines()

10. The readlines() method returns

a) str

b) a list of lines

c) a list of single characters

d) a list of integers

Answer: b

Explanation: Every line is stored in a list and returned.

**B. Short Answer Questions:**

1. Write a Python program to read an entire text file.
2. Write a Python program to read first n lines of a file.
3. Write a Python program to append text to a file and display the text.
4. Write a Python program to read last n lines of a file.
5. Write a Python program to read last n lines of a file.
6. Write a Python program to read a file line by line and store it into a list.
7. Write a Python program to read a file line by line store it into a variable.
8. Write a Python program to read a file line by line store it into an array.

**C. Long Answer Questions:**

1. Write a Python program to count the number of lines in a text file.
2. Write a Python program to count the frequency of words in a file.
3. Write a program to count total no of spaces, words, characters, lines in a msg.txt file.
4. What is file? Write difference between text file and binary file
5. Differentiate between text files and binary files.
6. Write a program to copy the content of notes.txt from 3rd character to till end of file to para.txt
7. Write a program to create binary file
8. Write a python program to find the longest words.

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