

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.
