



# INDIAN SCHOOL AL WADI AL KABIR

<b>Class: XII Comp. Sci.</b>	<b>Department: Computer Science</b>	<b>Date of submission: 20/12/2021</b>
<b>Worksheet No: 7</b>	<b>Topic: File Handling – Binary Files</b>	<b>Note:</b>

## Section A

### Fill in the blanks

[1] The \_\_\_\_\_ files are used to store large data such as images, video files, audio files etc.

→ Binary

[2] The process of converting the structure to a byte stream before writing to the file is known as \_\_\_\_\_.

→ Pickling

[3] The process of converting byte stream back to the original structure is known as \_\_\_\_\_.

→ Unpickling

[4] A \_\_\_\_\_ module is used to store data into a python objects with their structure.

→ pickle

[5] A \_\_\_\_\_ function of pickle module is used to write data into binary as well as a \_\_\_\_\_ function of pickle module is used to read data from binary file.

→ dump(), load()

[6] The \_\_\_\_\_ file mode is used to handle binary file for reading.

→ rb

[7] The \_\_\_\_\_ file mode is used when user want to write data into binary file.

→ wb

[8] A ab file mode is used to \_\_\_\_\_ in binary file format.

→ appending

The next section of Important QnA binary files CS Class 12 will provides MCQ type questions.

## Section B

### MCQs

[1] Which of the following is not a correct statement for binary files?

- a) Easy for carrying data into buffer
- b) Much faster than other file systems
- c) Characters translation is not required

**d) Every line ends with new line character '\n'**

[2] Which of the following file mode open a file for reading and writing both in the binary file?

- a) r
- b) rb
- c) rb+**
- d) rwb

[3] Which of the following file mode opens a file for reading and writing both as well as overwrite the existing file if the file exists otherwise creates a new file?

- a) w
- b) wb+**
- c) wb
- d) rwb

[4] Which of the following file mode opens a file for append or read a binary file and moves the files pointer at the end of the file if the file already exist otherwise create a new file?

- a) a
- b) ab
- c) ab+**
- d) a+

[5] Ms. Suman is working on a binary file and wants to write data from a list to a binary file. Consider list object as l1, binary file suman\_list.dat, and file object as f. Which of the following can be the correct statement for her?

a) `f = open('sum_list','wb'); pickle.dump(l1,f)`

b) `f = open('sum_list','rb'); l1=pickle.dump(f)`

c) `f = open('sum_list','wb'); pickle.load(l1,f)`

d) `f = open('sum_list','rb'); l1=pickle.load(f)`

[6] Which option will be correct for reading file for suman from q-5?

→ Option d) `f = open('sum_list','rb'); l1=pickle.load(f)`

[7] In which of the file mode existing data will be intact in binary file?

a) **ab**

b) a

c) w

d) wb

[8] Which one of the following is correct statement?

a) `import pickle`

b) `pickle import`

c) **`import pickle`**

d) All of the above

## Section C

### **Short Answer Questions – binary files in python class-12**

[1] Write steps to append data into binary files.

[2] Mention steps to search a record from binary files.

[3] Elaborate steps to update records in binary file.

[4] Write steps to delete records from binary file.

[5] Compare how binary files are better than text files?

[6] Explain various file modes can be used with binary file operations.

[7] What is pickle module? How to import pickle module in python program?

[8] How to use `dump()` and `load()` functions?

## Section D

### **Case study Based questions**

[1] Ms. Sejal is working on the sports.dat file but she is confused about how to read data from the binary file. Suggest a suitable line for her to fulfill her wish.

```
import pickle
def sports_read():
    f1 = open("sports.dat","rb")
    _____
    print(data)
    f1.close()
sports_read()
-> data = f1.load(f)
```

[2] Improve above code and write the correct code to display all records from the file.

```
f1 = open("sports.dat","rb")
try:
    while True:
        dt = pickle.load(f1)
        print(dt)
except Exception:
    f1.close()
```

[3] Develop python code to insert records in g\_meet.dat binary file until user press 'n'. The information is Google meeting id, google meeting time, and class.

```
f1 = open("g_meet.dat","ab")
while True:
    gmeet_id=input("Enter id:")
    gmeet_time=input("Enter time:")
    gmeet_class =int(input("Enter google meet class:"))
    rec={"Google Meeting id":gmeet_id,"Gogole Meet
Time":gmeet_time,"Google Meet Class":gmeet_class}
    pickle.dump(rec,f1)
    ch = input("Want more records:")
    ch=ch.lower()
    if ch=='n':
        break
f1.close()
```

[4] Write a function to update record from g\_meet.dat file.

[5] Create a function to delete a record from g\_meet.dat file.