Chapter -9
Chapter-9 File I/O
The random access memory is volatile and
all its contents are lost once a program
terminates.
In order to persist the data forever, we use
files.
A file is data stored in a storage device.
A Python program can talk to the file by
A Python program can talk to the file by reading content from it and writing content
to it.
write
Comp. Program written file
Comp. Program written in python
nead
Programmer RAM = Volgtile
HDD = Non-Volatile
SSD = Non-Volatile
Types of files
There are two types of files
1. Text files (.txt, c etc)
There are two types of files 1. Text files (.txt, c etc) 2. Binary files (.jpg, dat etc)
JIO / CICY
Python has a lot of functions for redical
Python has a lot of functions for reding, updating and deleting files.
Opening a file
Python has an open() function for opening
Opening a file Python has an open() function for opening files. It takes two parameters: filename and

open ("this.txt", "x")

Let Mode of opening (nead mode)

filename

Open is a built-in function Reading a file in python f = open ("this.txt", "v") -> opent the file in rmode text = f. read() -> read its contents ficlose() -> close the file He can also specify the number of characters in read() function: f. read(2) Other methods to read the file We can also use fireadline () function to read on fell line at a time f. readline() + read one line from the file. Mode of opening a file -D open for reading

-D open for writing

-D open for appending

-D open for updating. 'rb' will open for read in binary mode 'rt' will open for read in text mode

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Writing files in Python
In order to write to a file, we first open it
in write or append mode after, which, we
use the python's f.write() method to write
to the file!

f = open("this.txt", "w")
f.write ("This is nice") > can be ealled multiple
f.close()

with statement

The best way to open and close the file automatically is the with statement.

with open ("this.txt") as f:

Lp don't mead to write f-close ()
es it is done automatically

Chapter-9 Practice Set Quel Write a program to read the text from a given file poems.txt' and find out whether it contains the word 'twinkle' Que. 2. The game() function in a program lets a user play a game and returns the score as an integer. You need to read a file hiscore. 7xt which is either blank or contains the previous hi-score. You need to write a program to update the hi-score whenever game() breaks the hi-score. Que3. Write a program to generate multiplication table from 2 to 20 and write it to the different file. Place these files in a folder for a 13-year old. Bue 4. A file contains a word "Donkey" multiple times.
You need to write a program which replaces
this word with ##### by updating the same Oues. Repeat program 4 for a list of such words to be consored Que 6. Unite a program to prime a log file and find out whether it contains python. Que 7. Writ a program to find out the line number where eython is present from Ques 6.