Date:_____

* File Handling in Python *

① Text files:- .txt, .docx, .log etc.

② Binary files:- .mp4, .mov, .png, .jpeg etc.

① Open a file:-

```
f = open("file_name", "mode")
```

↳ r: read
w: write

② Reading a file:-

```
data = f.read()
print(data)
print(type(data))
```

③ Closing a file:-

```
f.close()
```

④ Modes of files:-

"r" → Open for reading

"w" → Open for writing, truncating 1st line → overwriting

"x" → Create a new file and open it for writing.

Date:

"a" → Open for writing, appending to end of file if exists.

"b" → binary mode

"t" → text mode (By default)

"+" → Open a disk file for updating (reading and writing)

We can combine multiple modes.

⑤

Read in detail :-

f.read(5) → Read only 5 characters.

f.readline() → Reads only 1 line.

If we read a data once the pointer goes and we cannot read the previous line again.

r+ , r w+

Date:

⑥ Writing to a file:- overwrite mode ↑ → "a" append mode.

```
open("file", "w")
fwrite("I am writing new data")
```

→ If file is not there, it will be created.

⑦ Combine reading and writing :-

r+ , r , w+ , w , a+ , a appending to the file.

r+ → Truncating but stream is at the start.

w+ → Truncating but the file is all truncated.

(Stream is at the end)

r+ → read + overwrite (ptr start) no truncate

w+ → read + overwrite (ptr start) truncate

a+ → read + append (ptr last) no truncate.

Date:_____

⑧ With Syntax :-

```
with open("f.txt","a") as f:
    data = f.read()
```

Indentation

→ It automatically close the file.

⑨ Deleting a file :-

```
import os
os.remove(filename)
```

① Create a file and write data to it

② Replace one word by another.

③ Search for a word in the file.

④ Find in which line does the word occur.

⑤ From a file containing number separated by comma, find the count of even no.

Date:_____

Exercise no 8- 05 Solution

```
num = ""
for i in range (len(data)):
    if (data[i] == ","):
        print (num)
    else → num = ""
        num += data[i]
```

2nd Method:-

```
count = 0
nums = data.split(",")
for val in nums:
    if (int(val) % 2 == 0):
        count += 1

print(count)
```

"That was all about the file handling in Python"