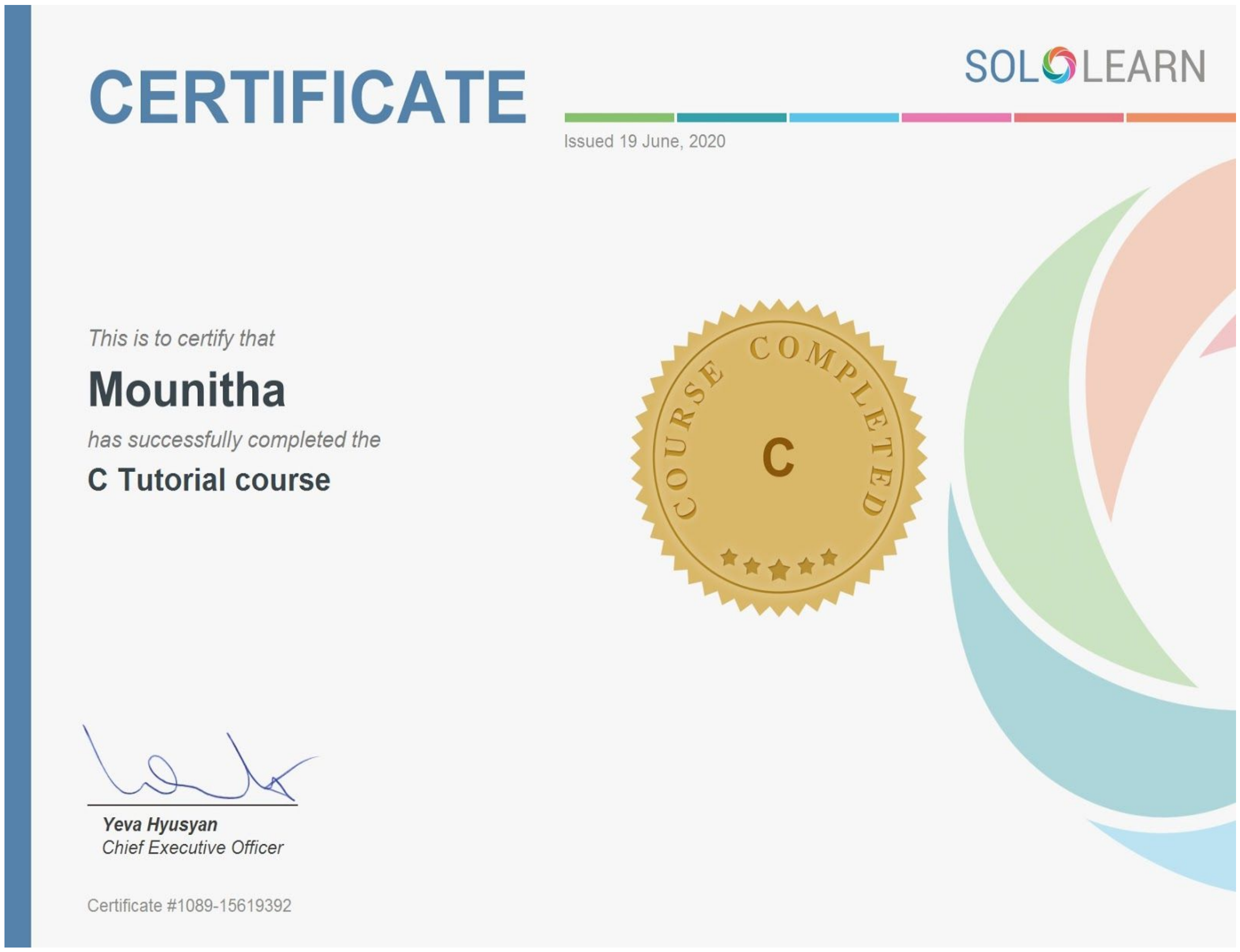
DAILY ASSESSMENT FORMAT

Date:	20-06-2020	Name:	MOUNITHA D M
Course:	C programming	USN:	4AL17EC055
Topic:	Files and Error Handling The Preprocessor	Semester & Section:	6TH SEM "A" SEC
Github Repository:	Mounitha_-ec055		

FORENOON SESSION DETAILS
Image of session



CERTIFICATE

SOLOLEARN

Issued 19 June, 2020

This is to certify that

Mounitha

has successfully completed the

C Tutorial course

COURSE COMPLETED

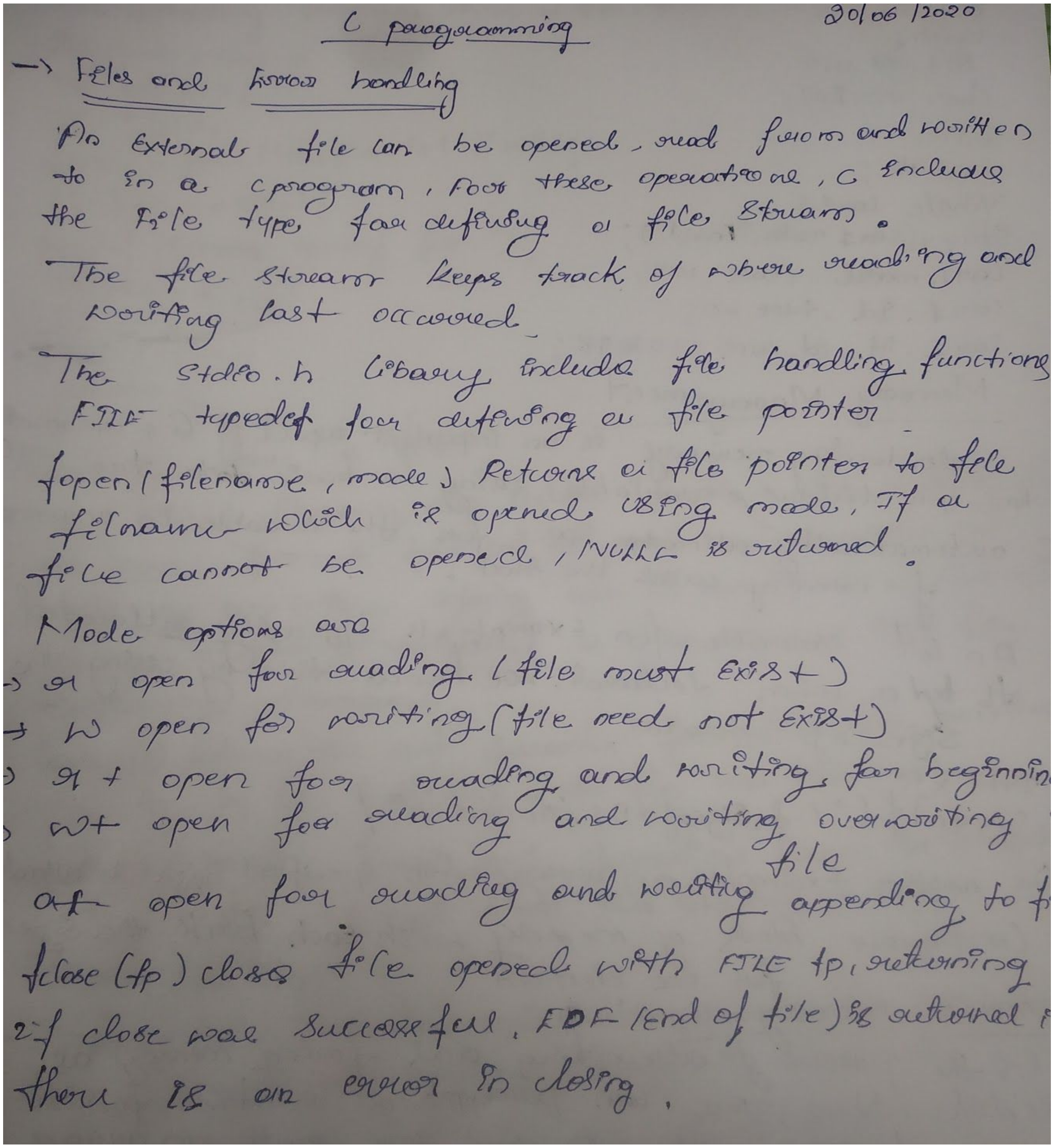
C

[illegible]

Yeva Hyusyan
Chief Executive Officer

Certificate #1089-15619392

Report – Report can be typed or hand written for up to two pages.



C programming 20/06/2020

→ Files and Error handling

An External file can be opened, read from and written to in a c program, For these operations, C include the File type for defining a file stream.

· The file stream keeps track of where reading and writing last occurred.

The stdio.h Library include file handling functions FILE typedef for defining a file pointer.

fopen(filename, mode) Returns a file pointer to file filname which is opened using mode, If a file cannot be opened, NULL is returned.

Mode options are

→ r open for reading (file must Exist)

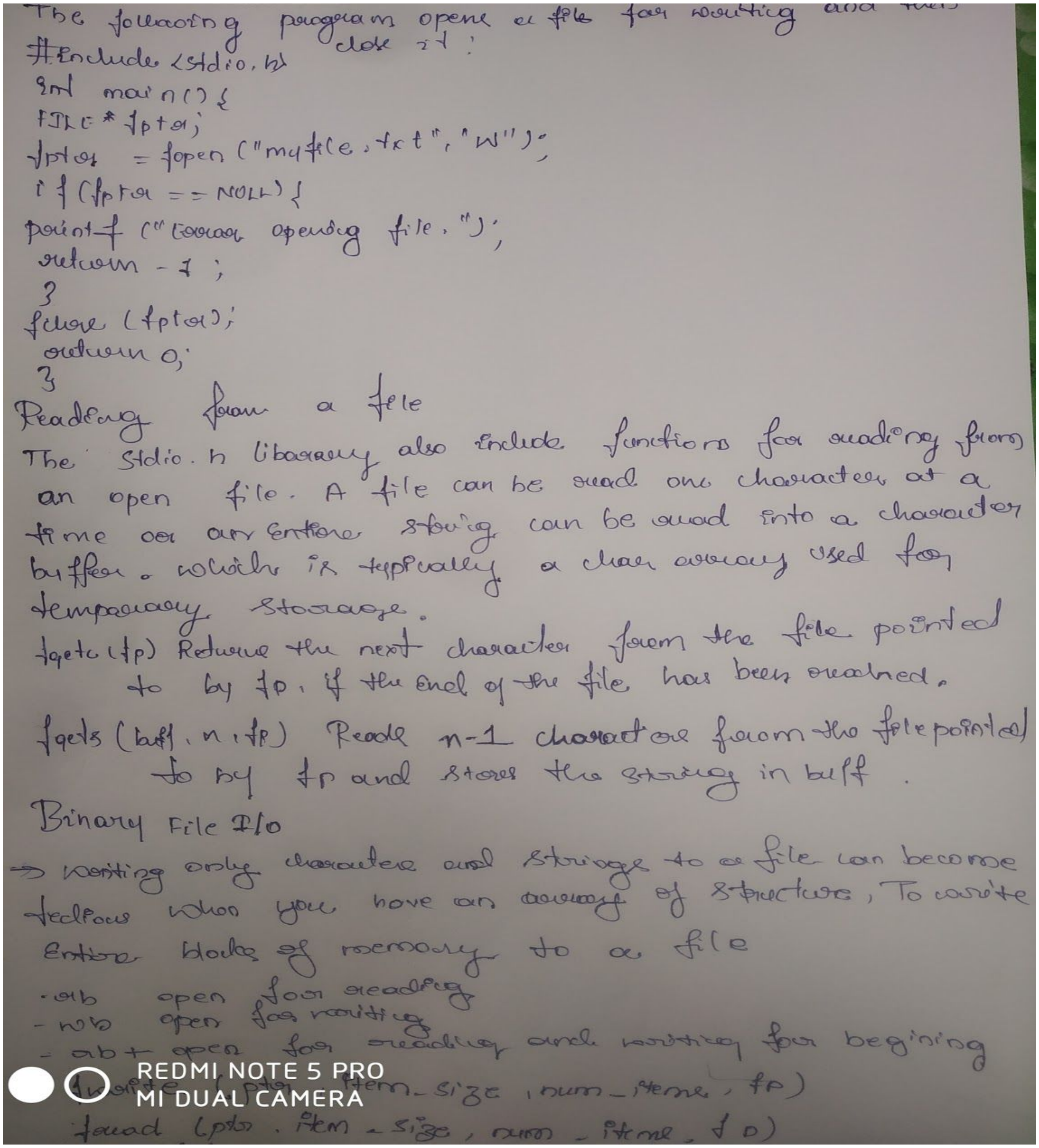
→ w open for writing (file need not Exist)

→ r + open for reading and writing, for beginnin

→ w+ open for reading and writing overwriting file

a+ open for reading and writing appending to f

fclose(fp) closes file opened with FILE fp, returning 0 if close was successful. EOF (End of file) is returned if there is an error in closing.



The following program opens a file for writing and then close it :

```
#include <stdio.h>
int main(){
FILE *fptr;
fptr = fopen("myfile.txt","w");
if (fptr == NULL){
printf("Error opening file.");
return -1;
}
fclose(fptr);
return 0;
}
```

Reading from a file

The stdio.h library also include functions for reading from an open file. A file can be read one character at a time or an entire string can be read into a character buffer. which is typically a char array used for temporary storage.

fgetc(fp) Returns the next character from the file pointed to by fp, if the end of the file has been reached.

fgets(buff, n, fp) Reads n-1 characters from the file pointed to by fp and stores the string in buff .

Binary File I/O

→ writing only characters and strings to a file can become tedious when you have an array of structures, To write entire blocks of memory to a file

- rb open for reading
- wb open for writing
- ab+ open for reading and writing for begining

fwrite (ptr, item_size, num_items, fp)
fread (ptr, item_size, num_items, fp)