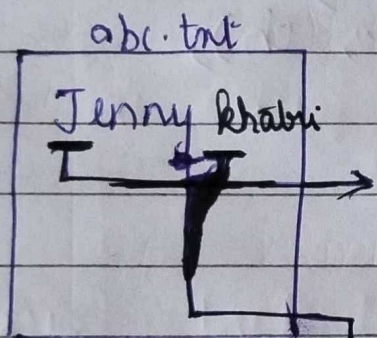


C-126 \Rightarrow a^+ mode in File Handling

* ' a ' mode is for appending at the end of the file.

* ' a^+ ' mode is for both reading and appending



If we do read operation in append mode the cursor will be here.

If we do append means the cursor will be here and append the content.

* append means writing at the end of the file.

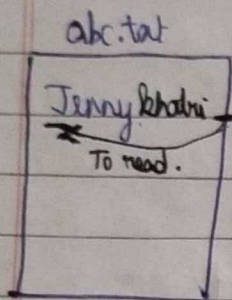
NOTE:

In 'a' mode is same as 'a+' mode if file do not exist it will create a file.

* We have only one pointer and based on the mode the cursor will be moved to do the specific operation we give.

```
int main()
```

```
FILE *fp = NULL; char ch;  
fp = fopen("abc.txt", "a+");
```



```
if (fp == NULL)
```

```
{
```

```
printf("file do not exist");  
exit(1);
```

```
}
```

```
puts("khatri", fp);
```

Now if we want to read, the cursor should be moved to first; for that use `rewind()`

```
rewind(fp);
```

```
while (!feof(fp))  
{
```

```
ch = fgetc(fp);
```

```
printf("%c", ch);
```

```
}
```

```
fclose(fp);
```

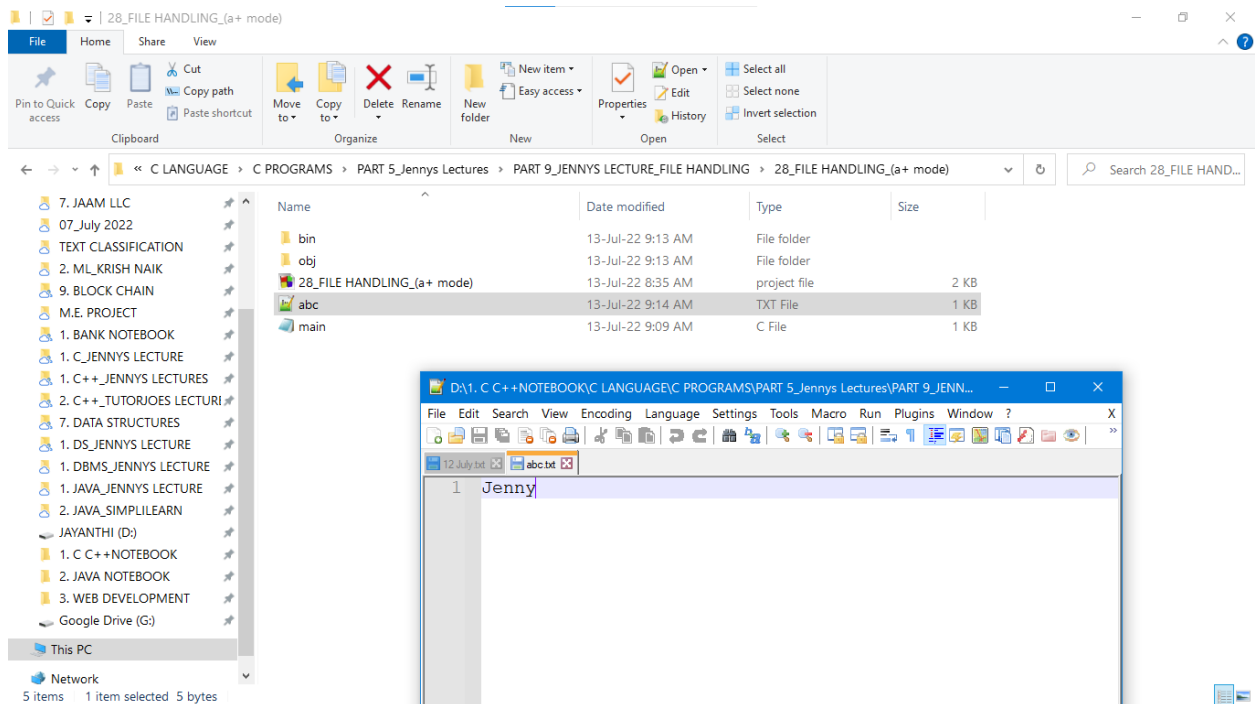
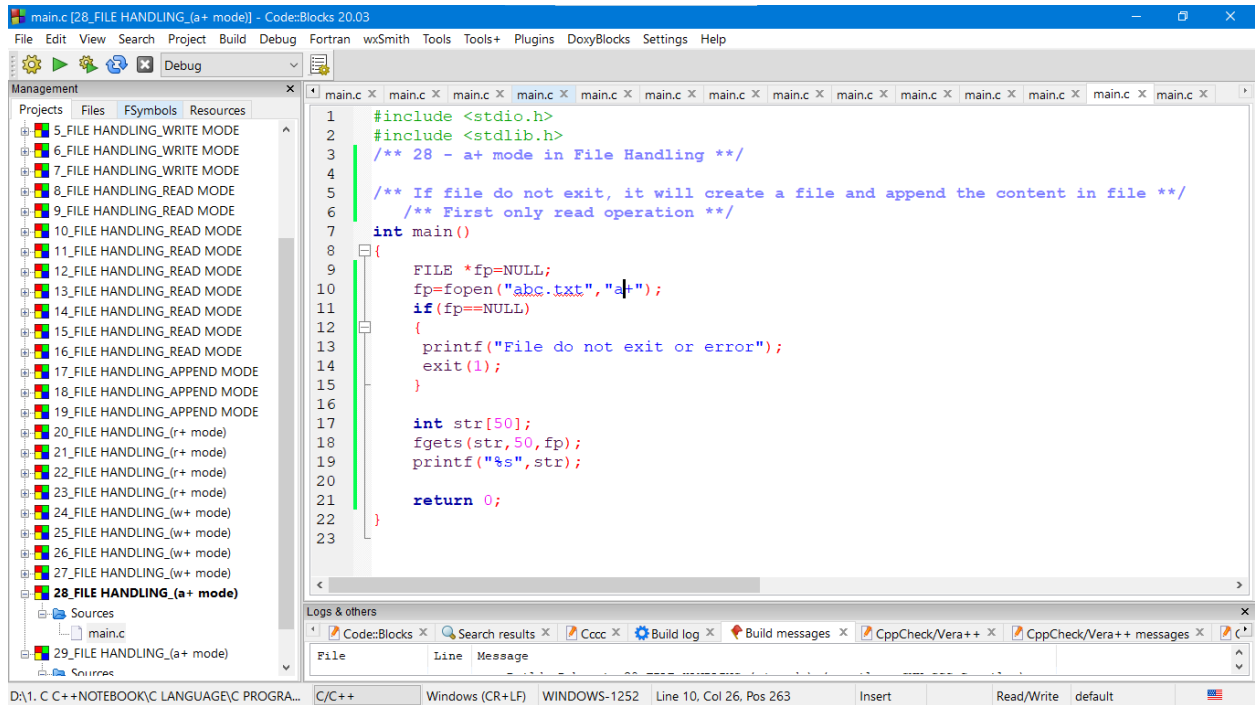
```
}
```

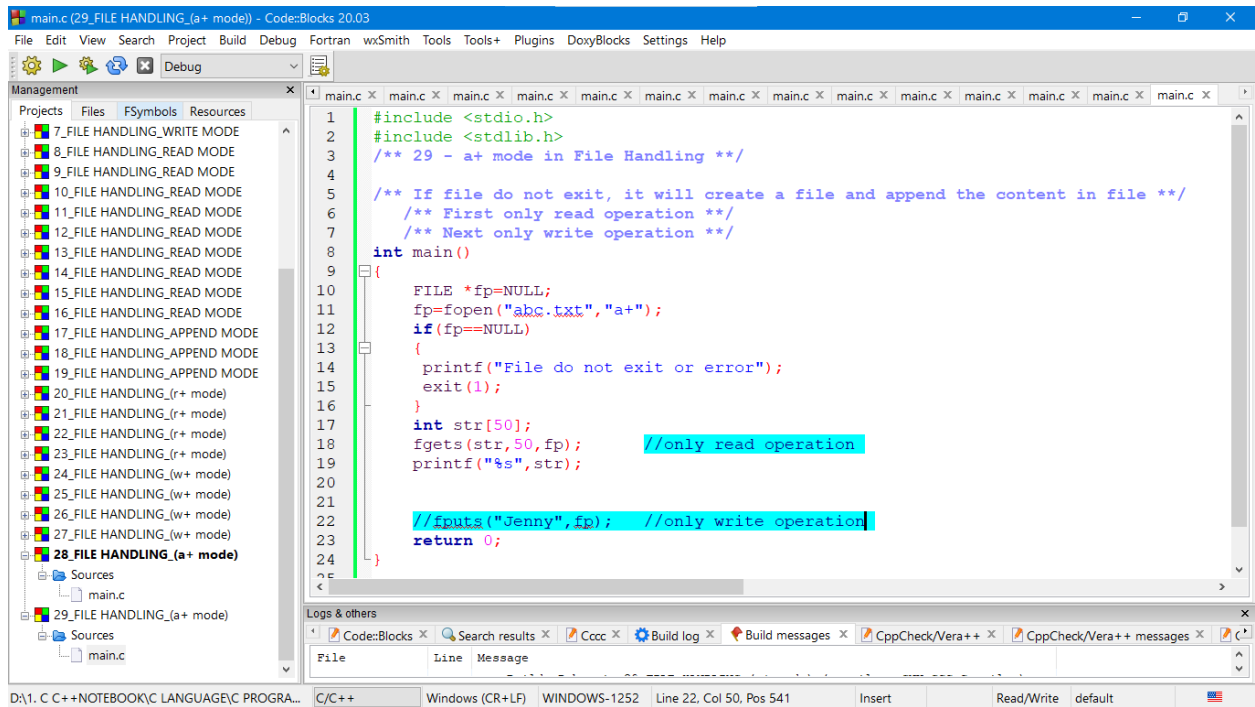
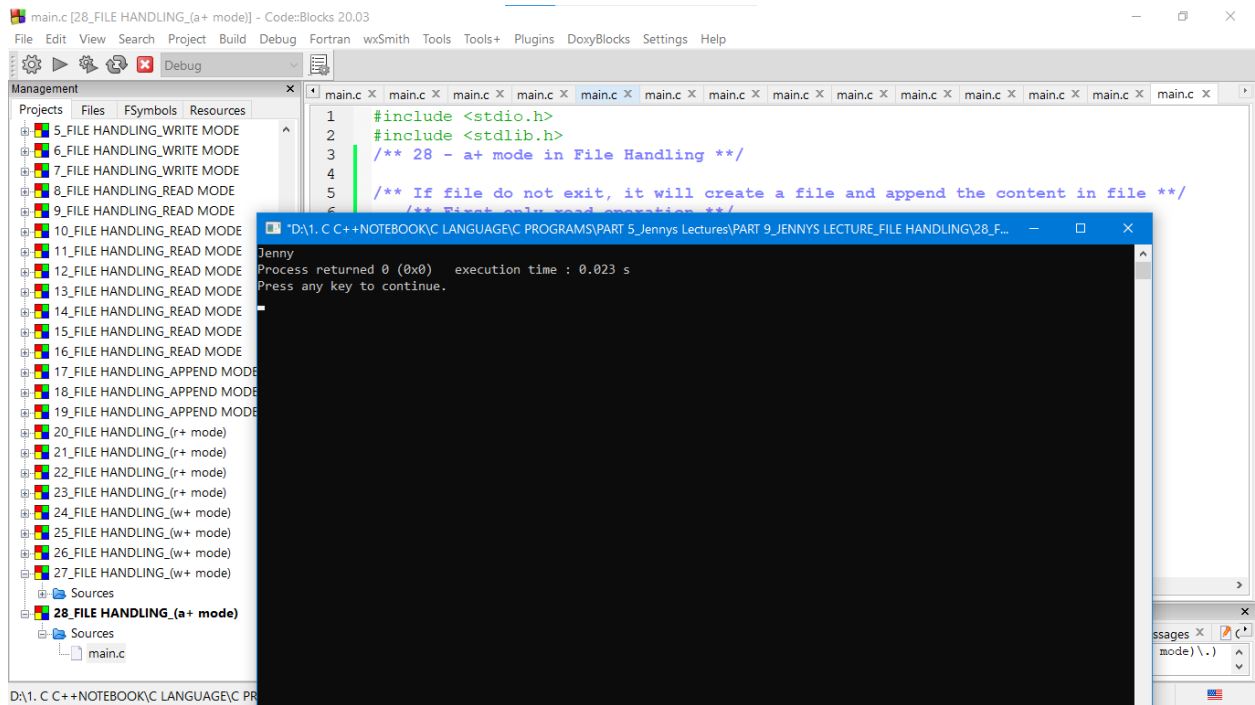

Comparison between r^+ , w^+ , a^+ :

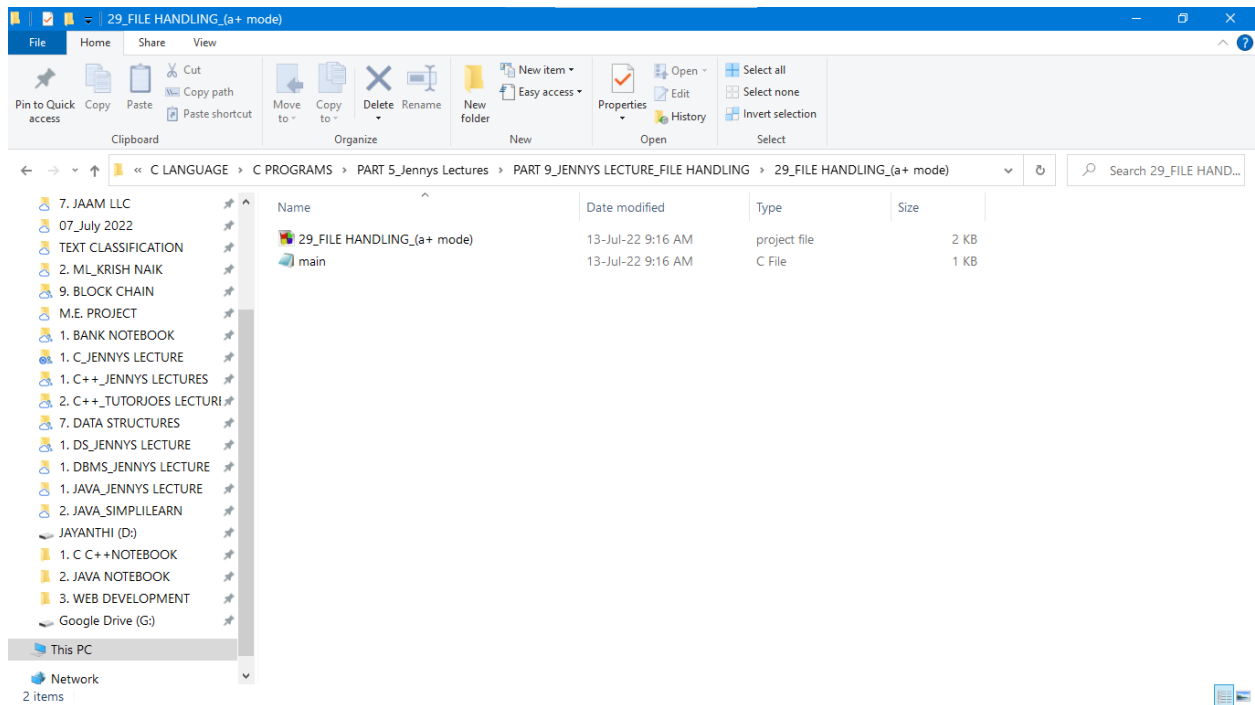
- * r^+ will open for both reading and writing also if file do not exist it will not create a new file; The previous content will not be erased.
- * w^+ will open for both reading and writing. If file exist the previous content is erased and new file is overwritten and if file not exists will create a file.
- * a^+ will open for both reading and writing also if file do not exists it will create a new file and if file exist it will append or write at the end of the file.

NOTE:

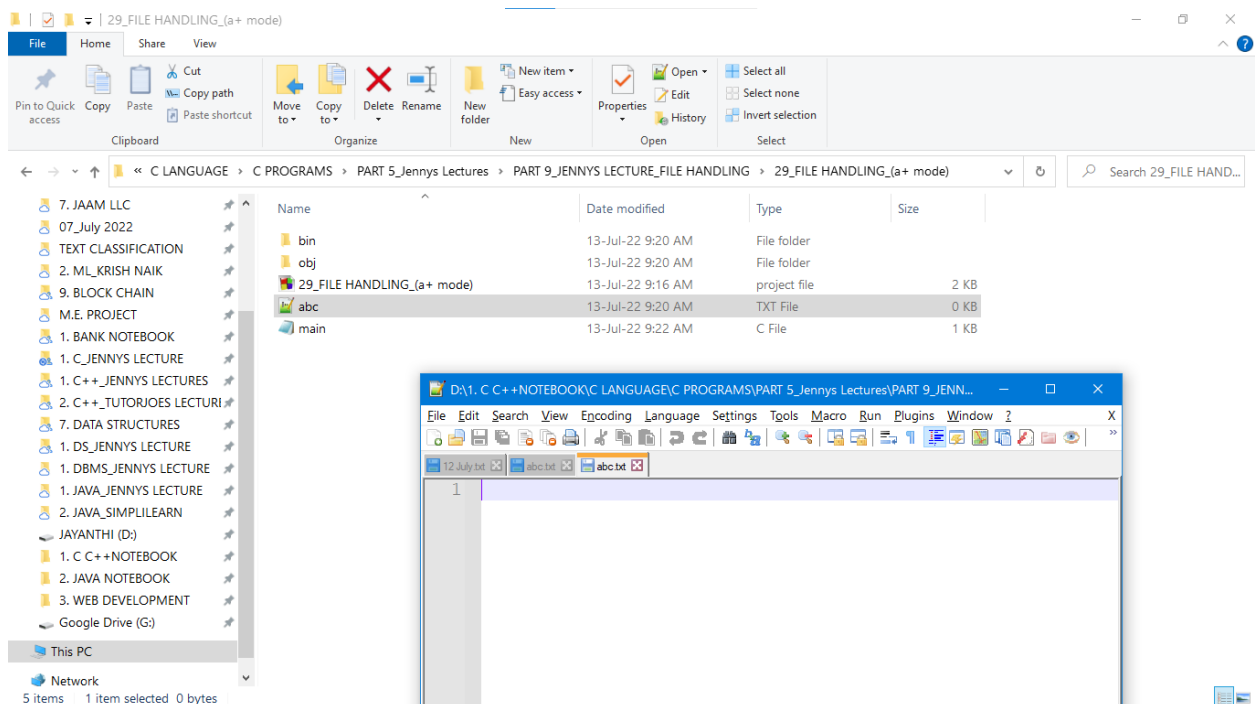
- * Before writing operation first read and do write operation and check.



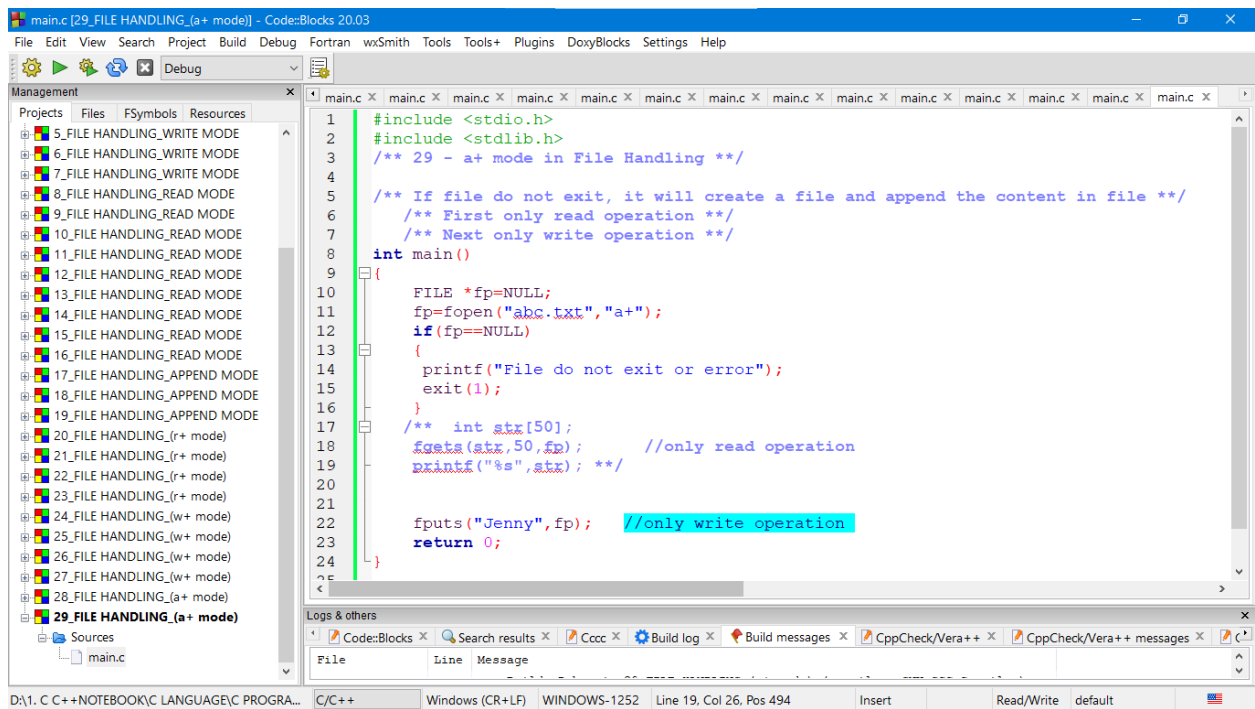
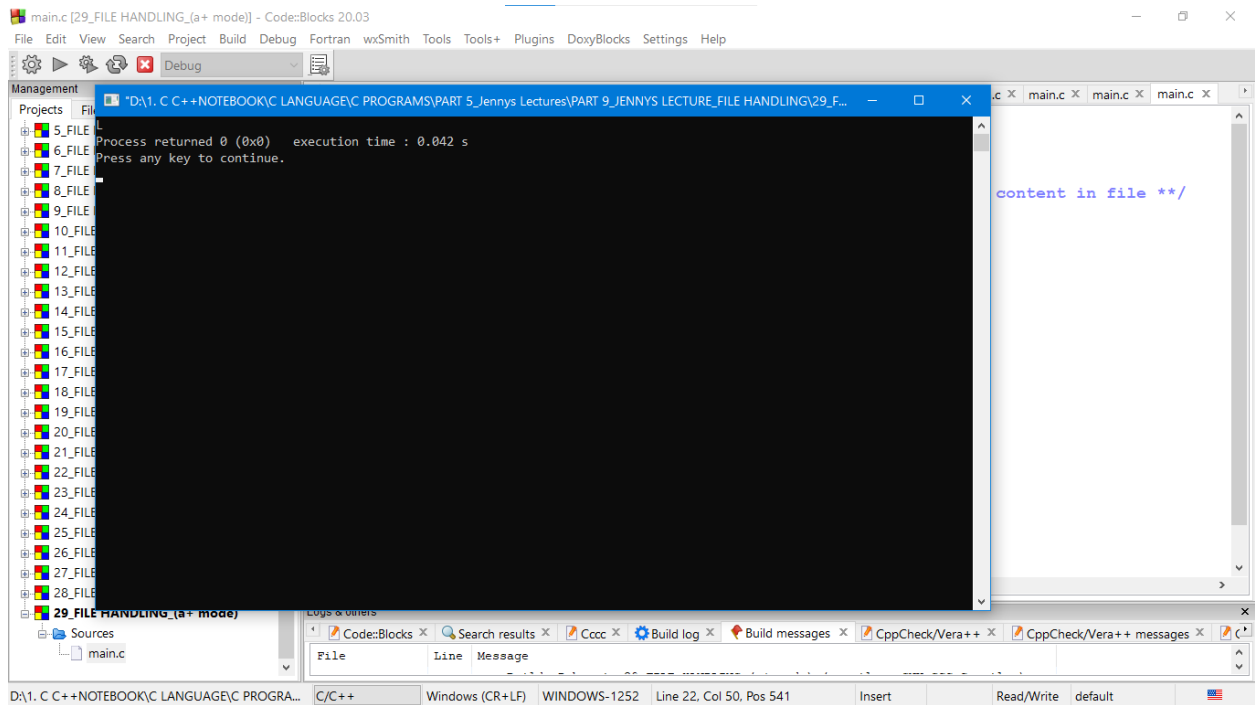


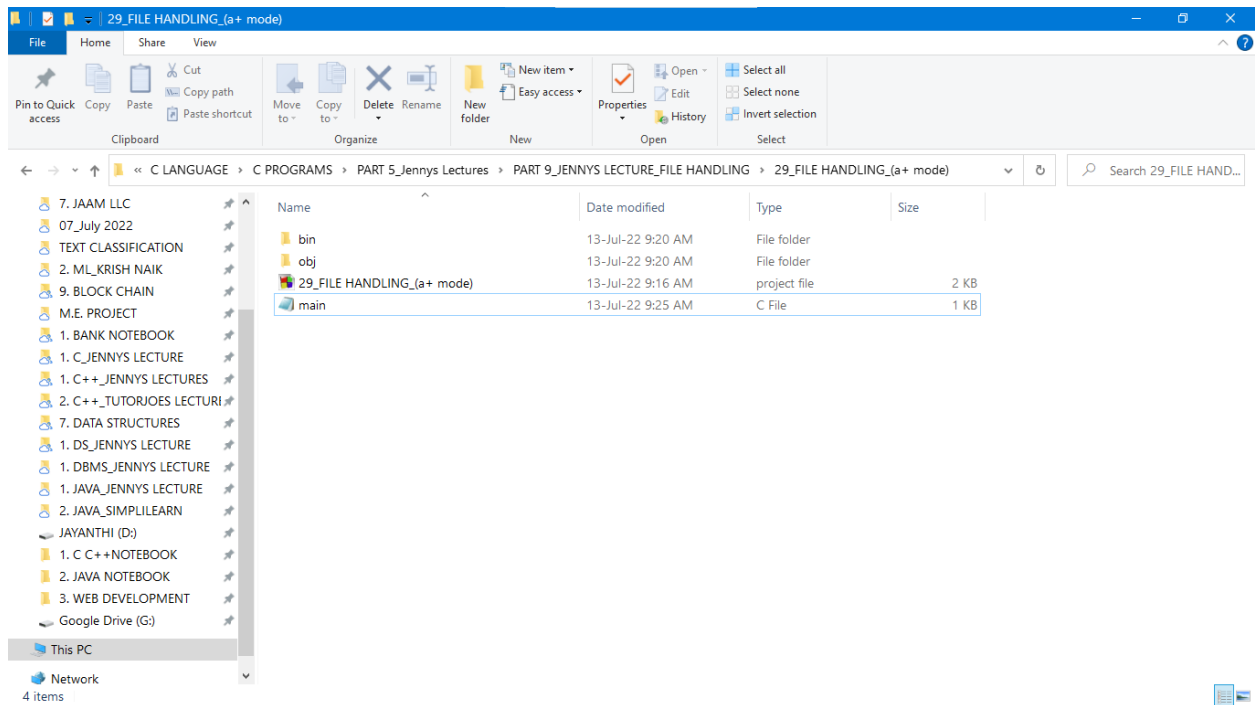


File do not exit so it will create a file but nothing there to read

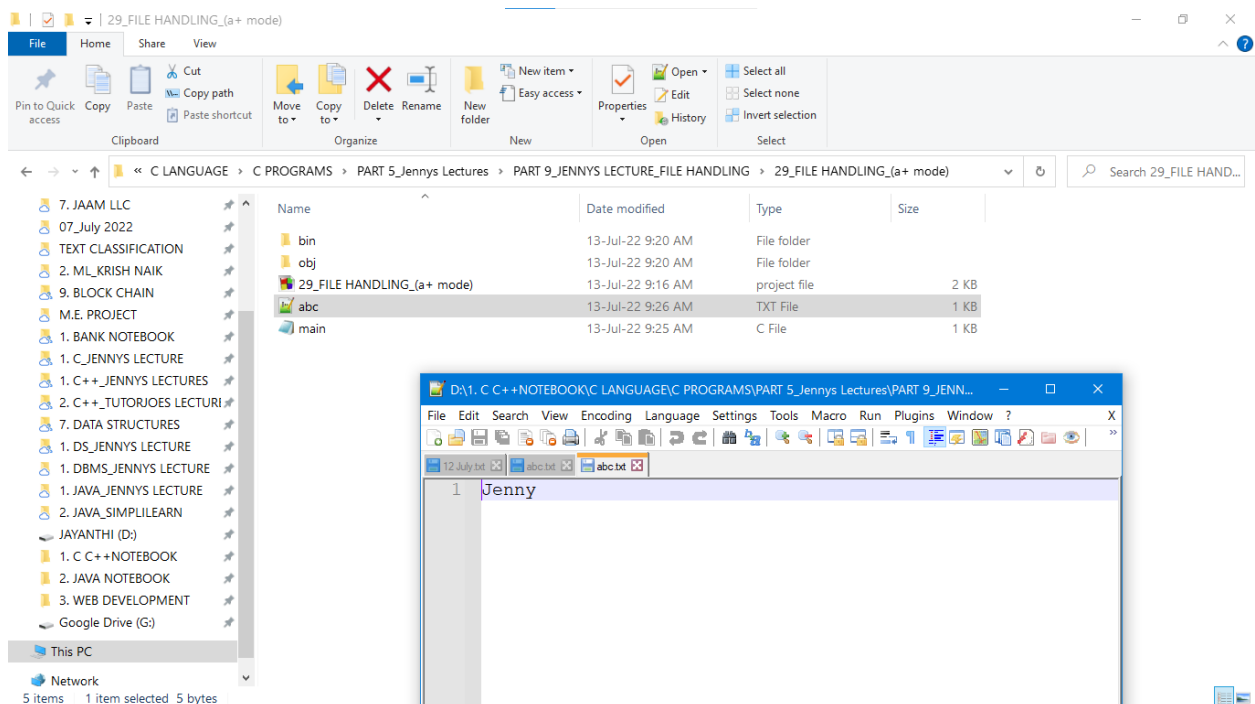


Hence prints garbage value in console window

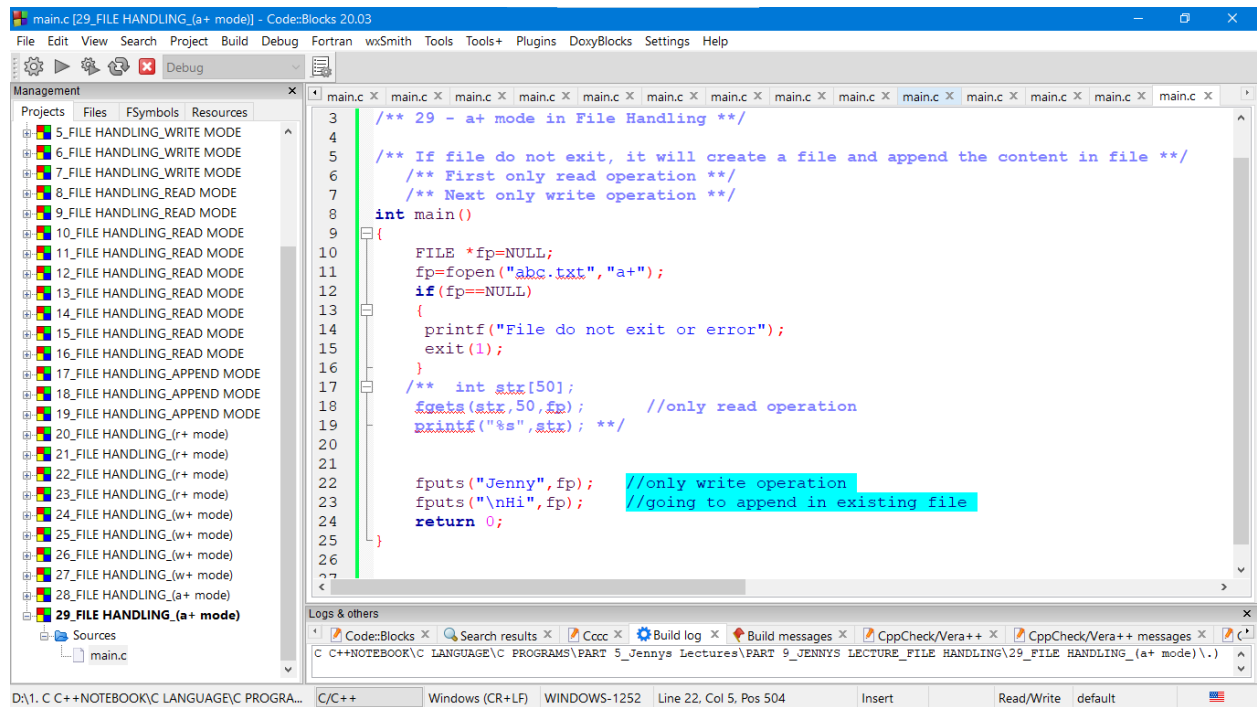




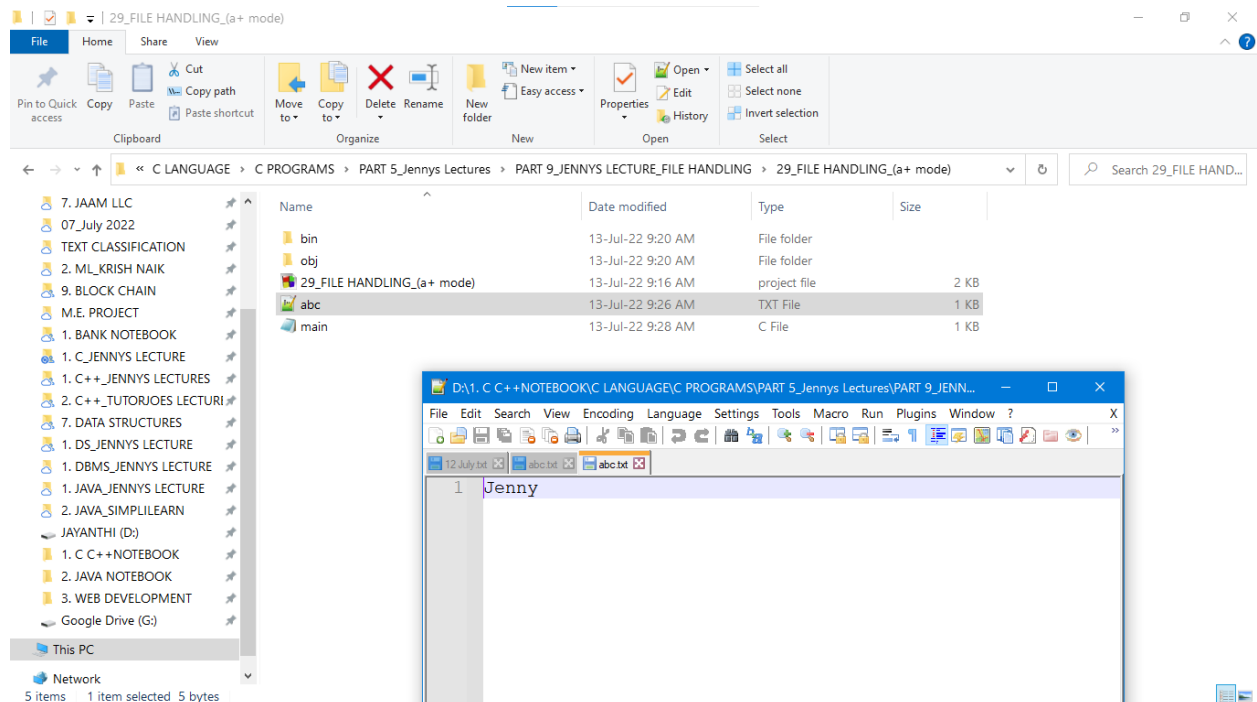
There is no file, so a+ mode will create a file then write in it.

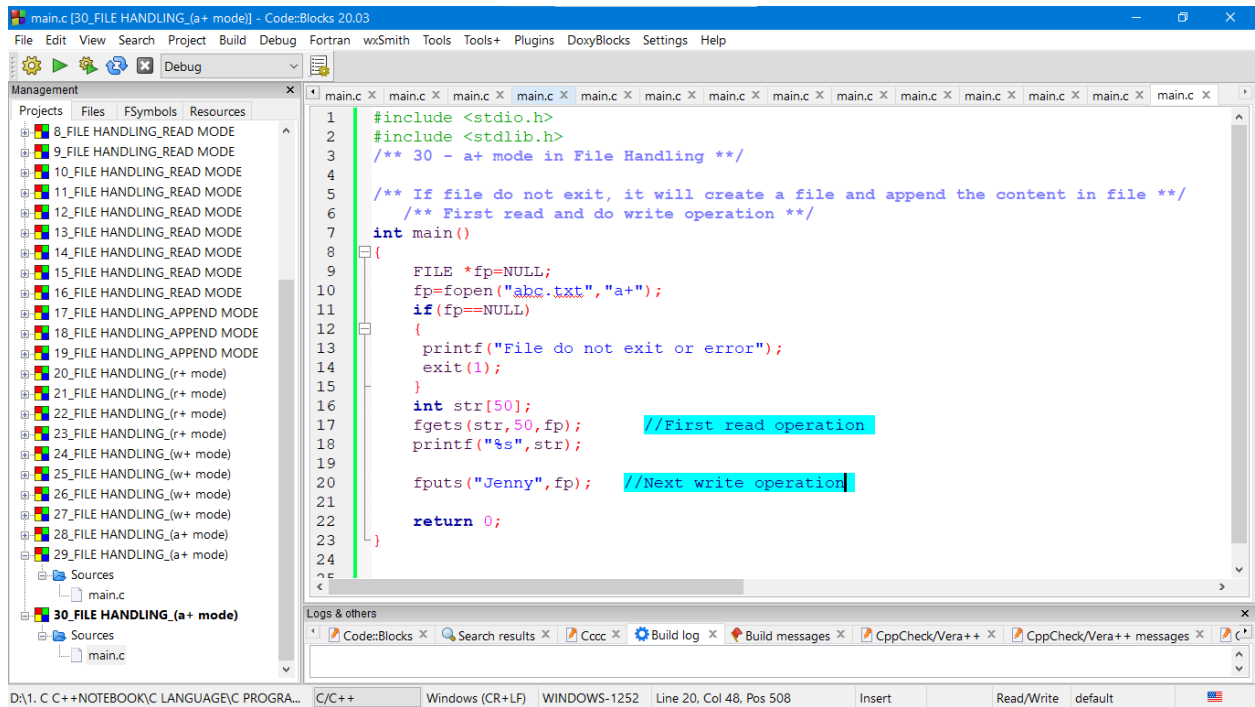
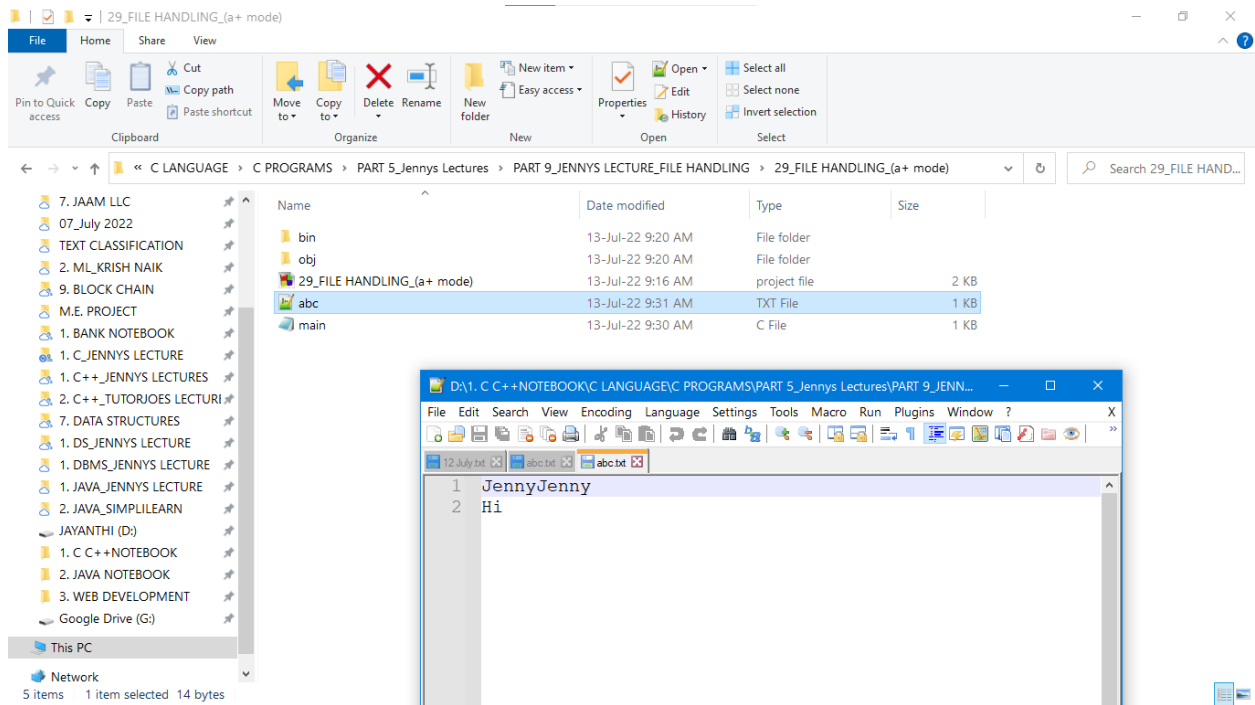


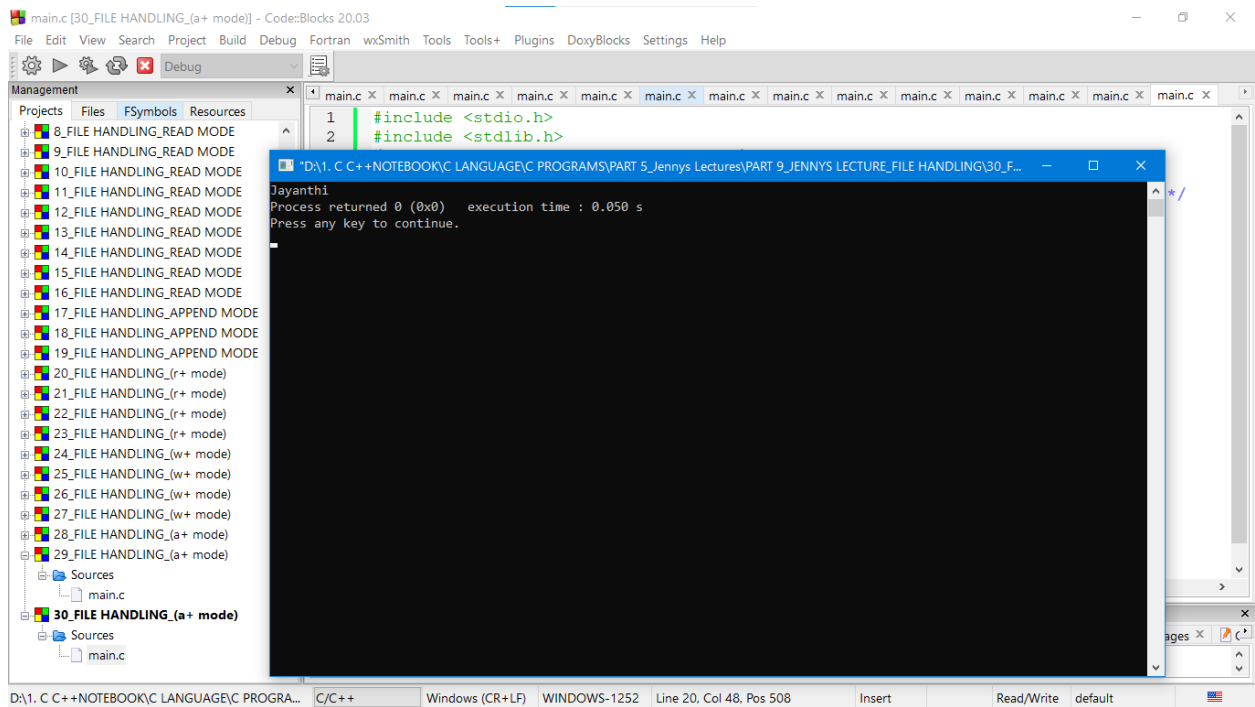
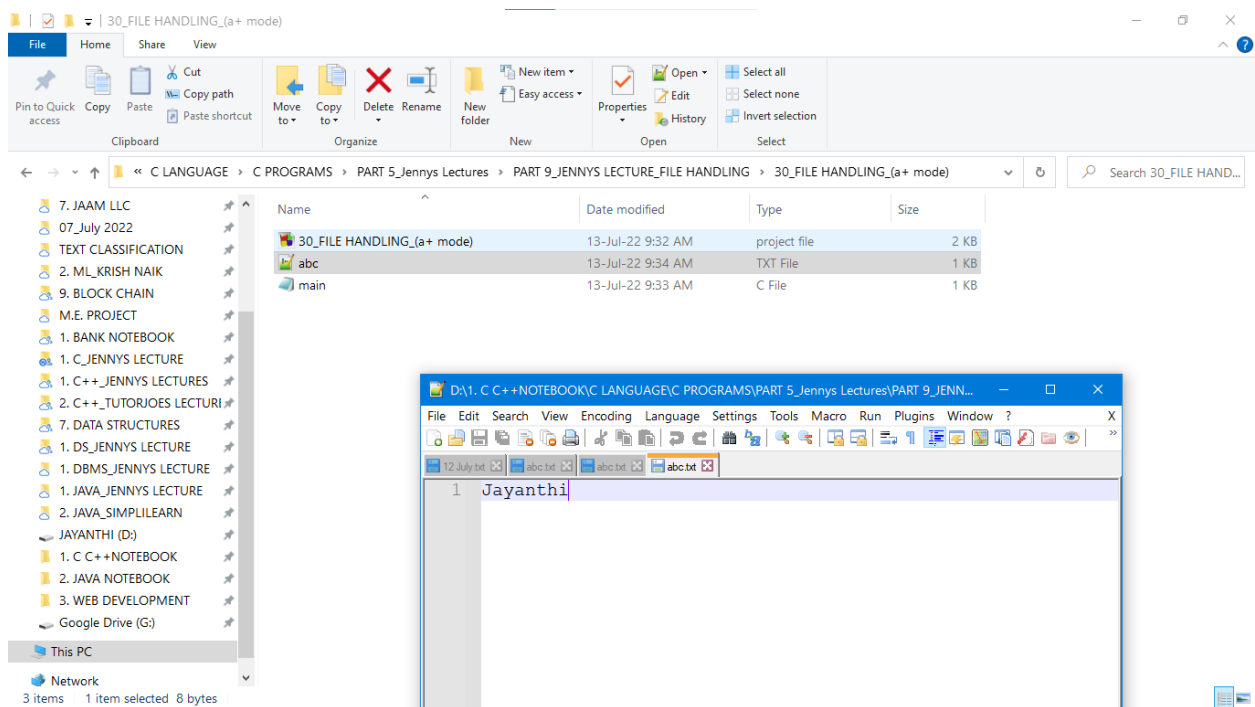
File is created and content is written.

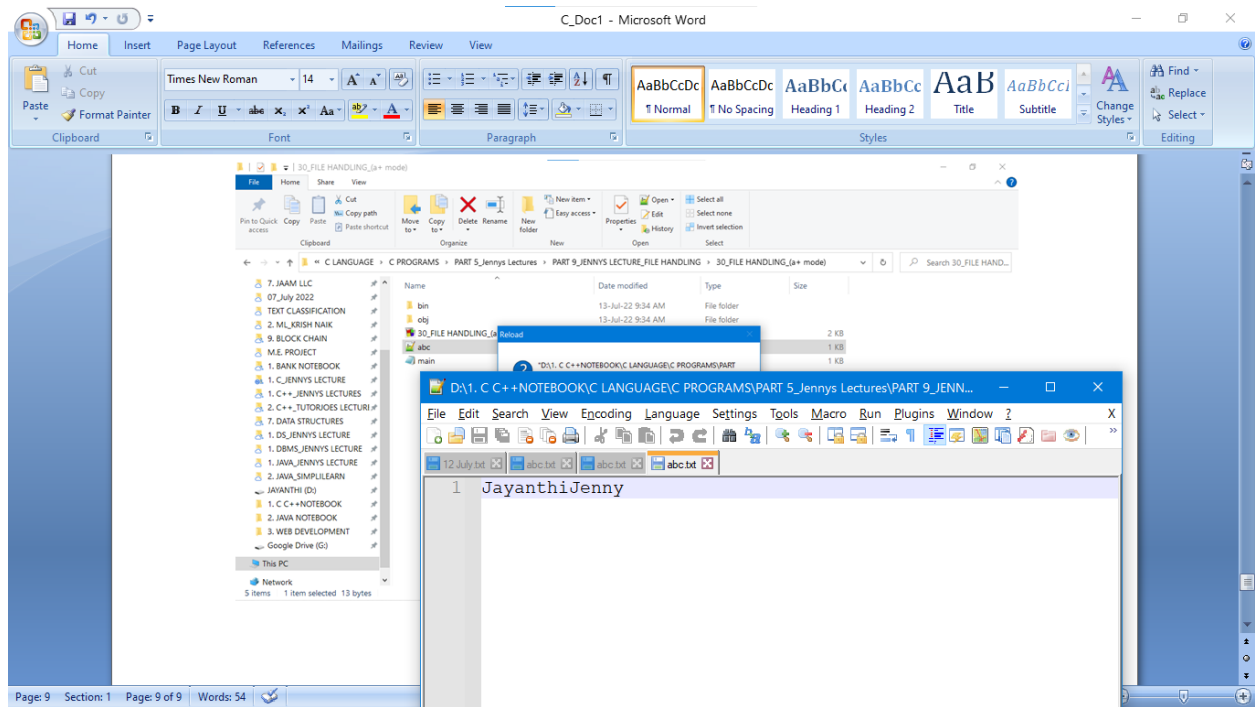
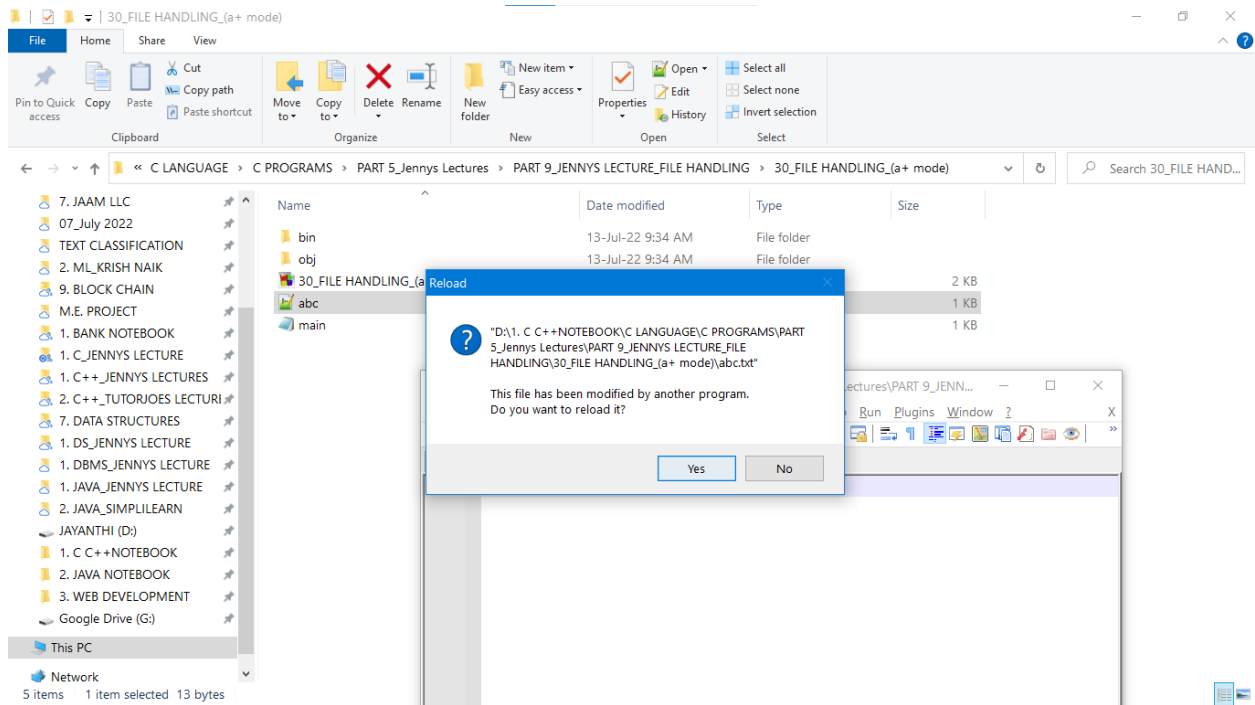


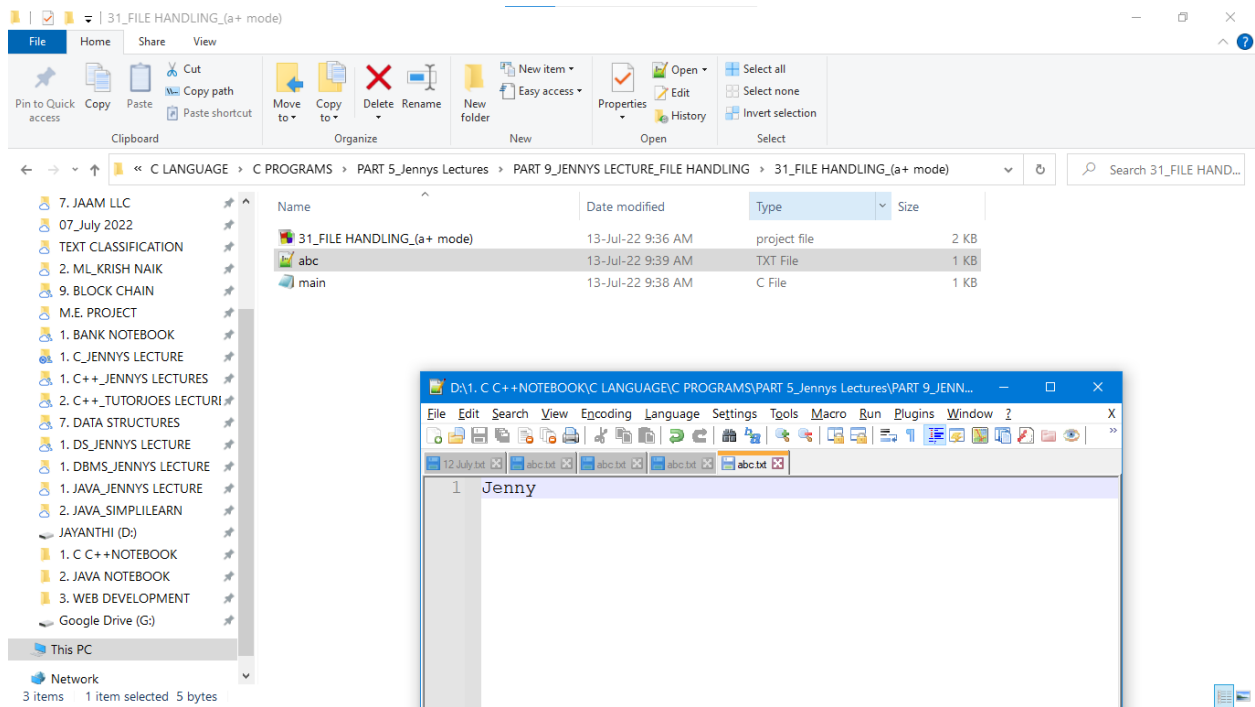
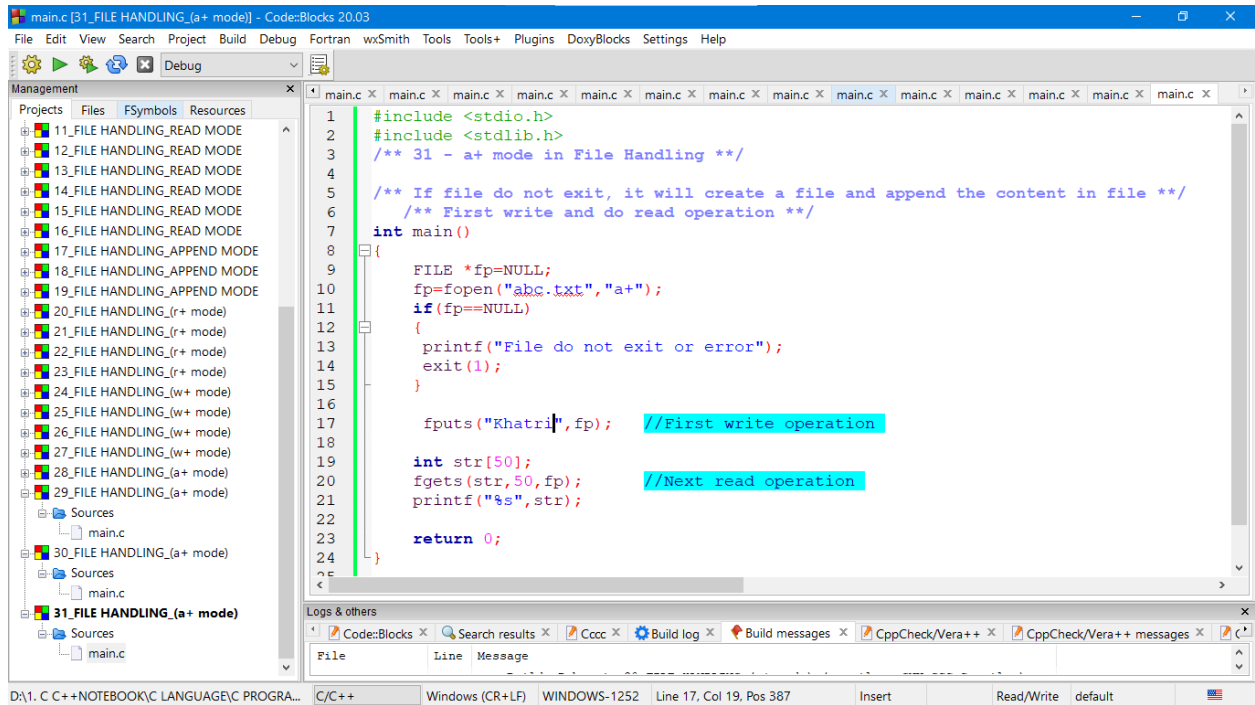
Now we are going to append content in existing file

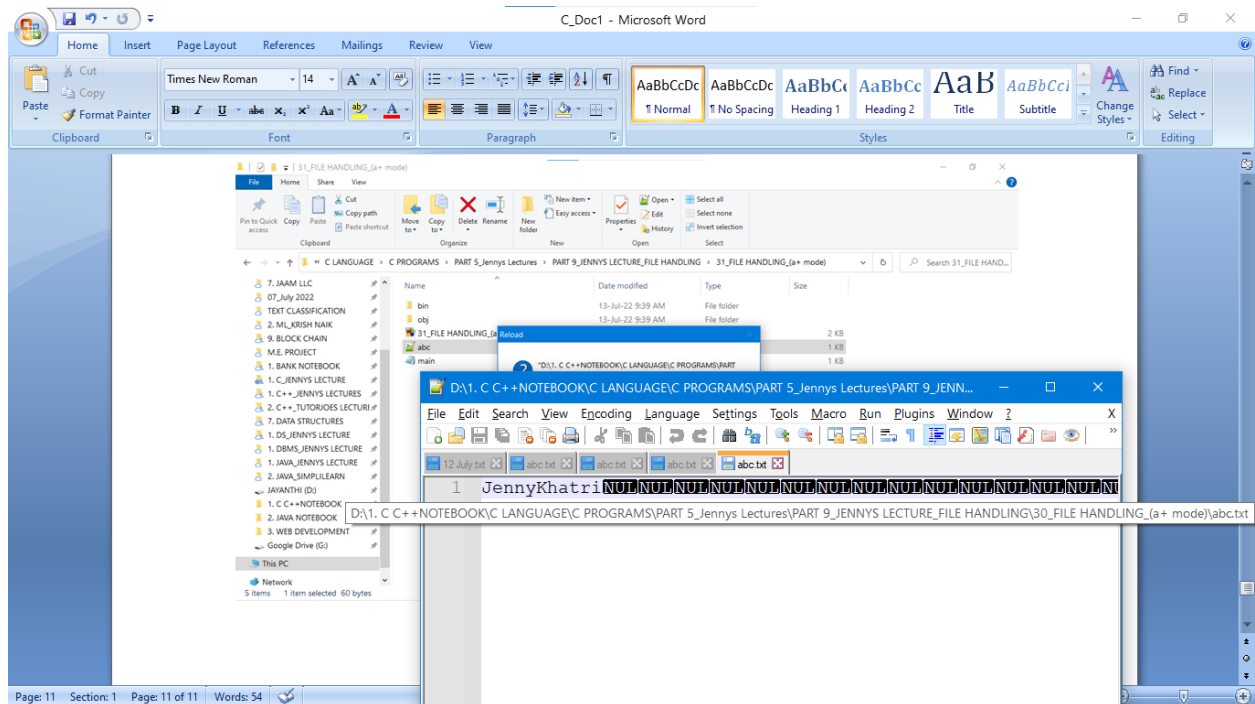
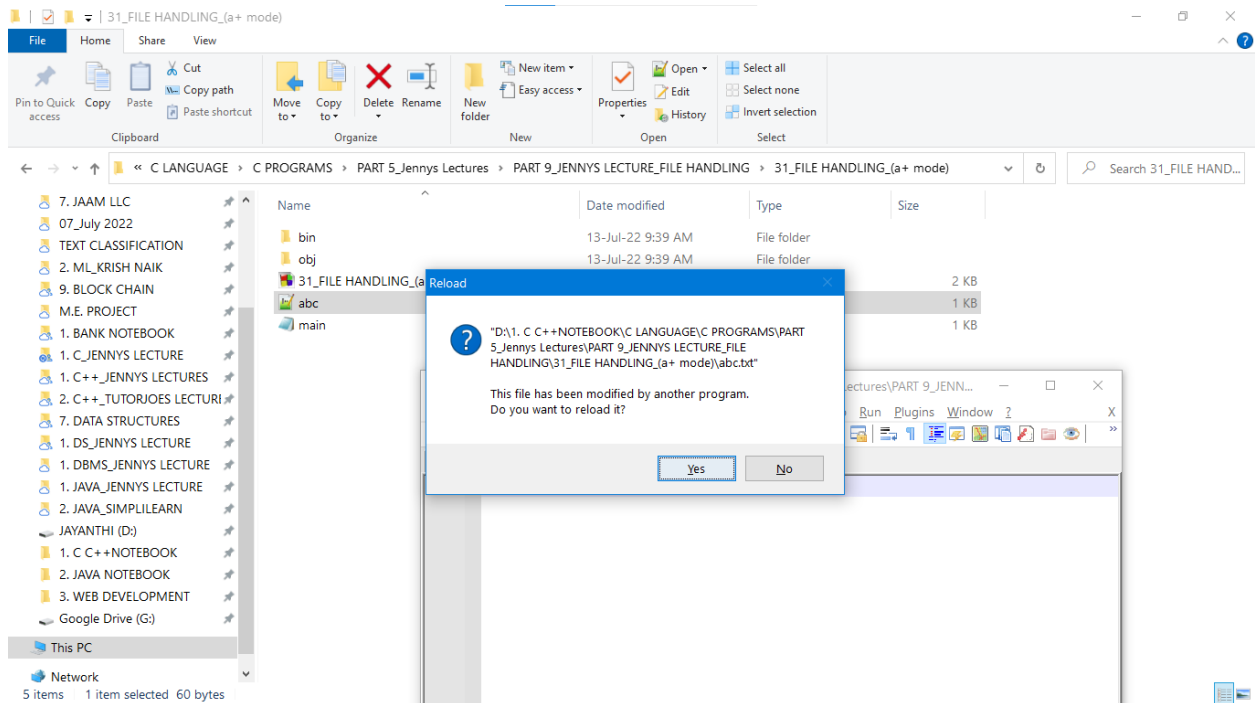




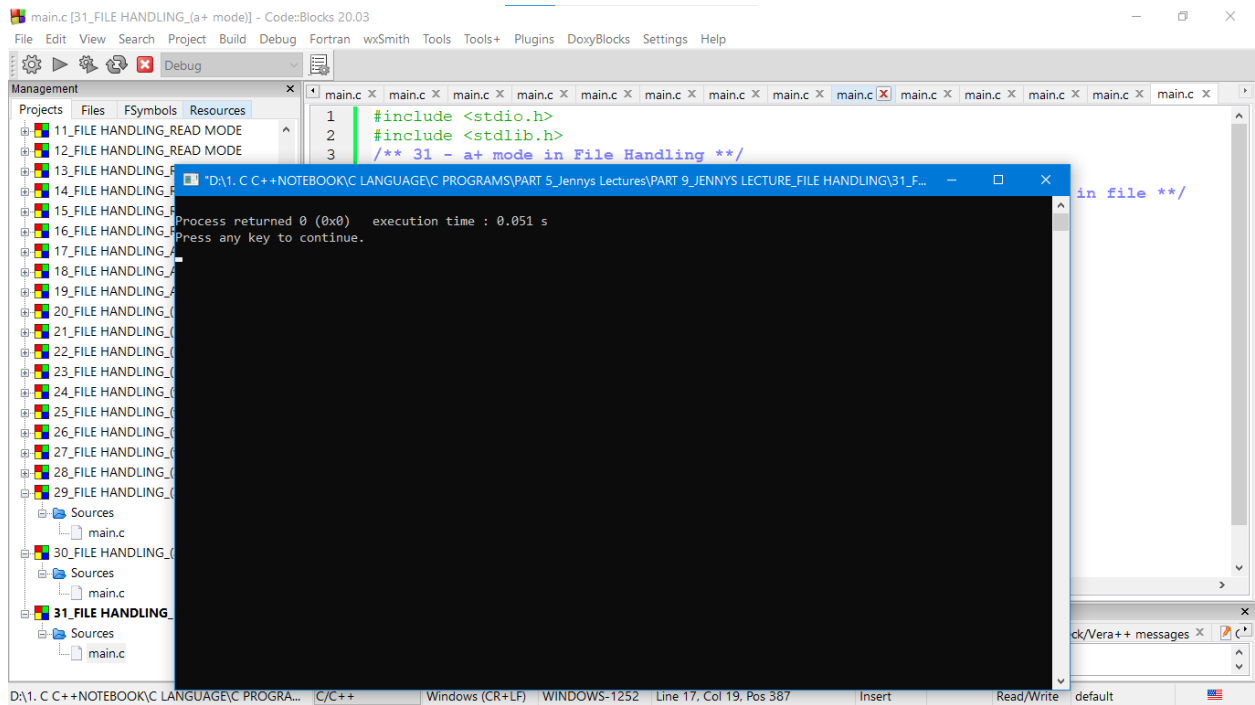








Now the content is appended in file but since it is in append mode the content is appended at last and cursor is at end of file. So when we do read operation after this since the cursor is at end of file there is no content to read a file after that and hence it prints nothing in the console window.



Now use `rewind(fp)` which moves the cursor to beginning of the file and now we can read the file contents.

