Hassaan Ali Mehmood (264947)

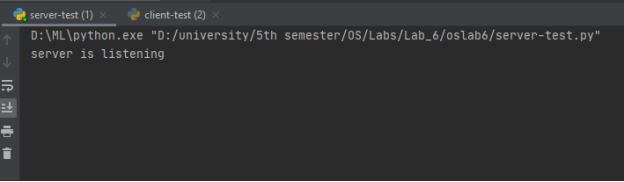
Muhammad Ahmed Bilal (245987)

User manual

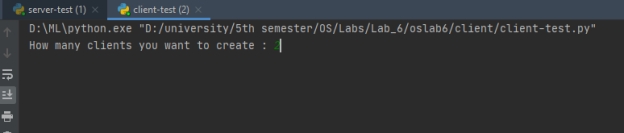
Synchronized File Management Server (Client Server)

**Output of the system**

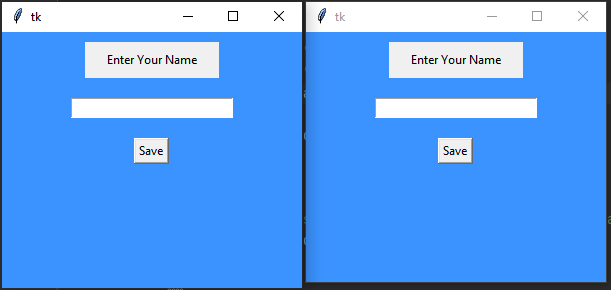
**Server is Live**



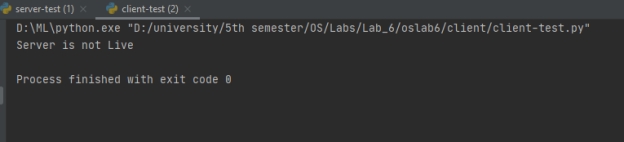
**Client**



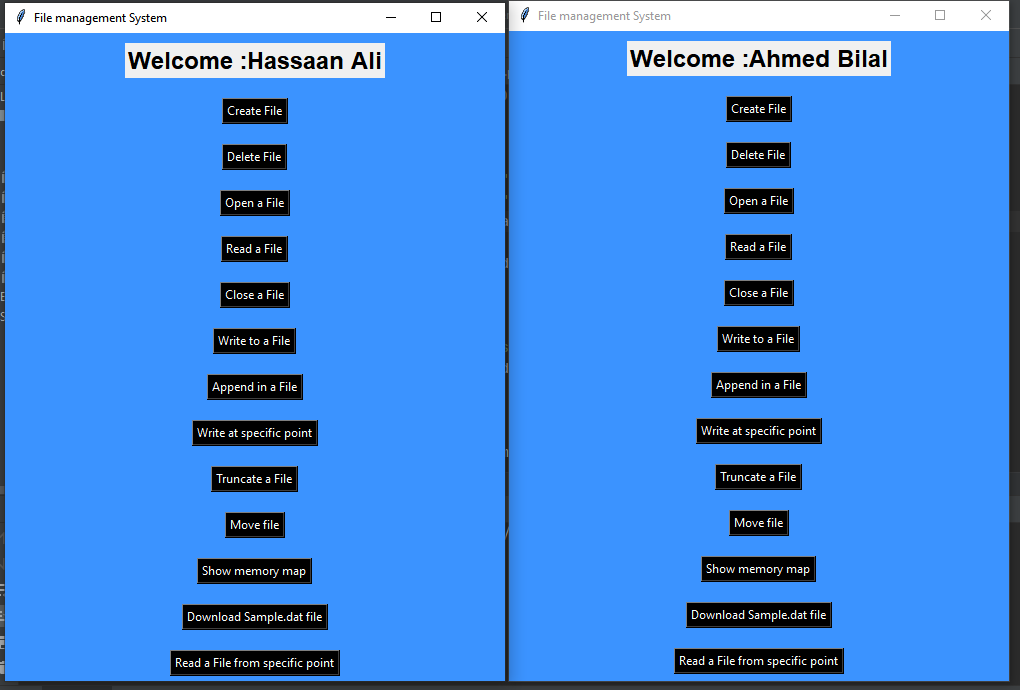
If the server is live you will get the following interface

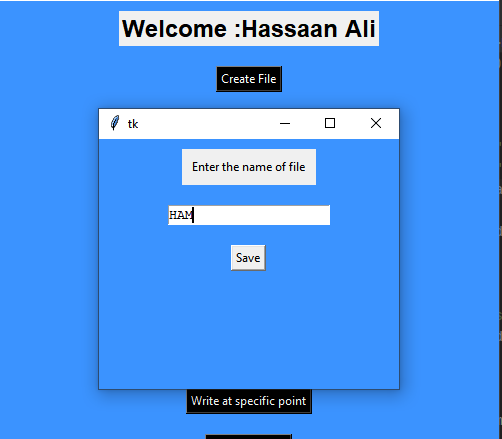


**Otherwise**

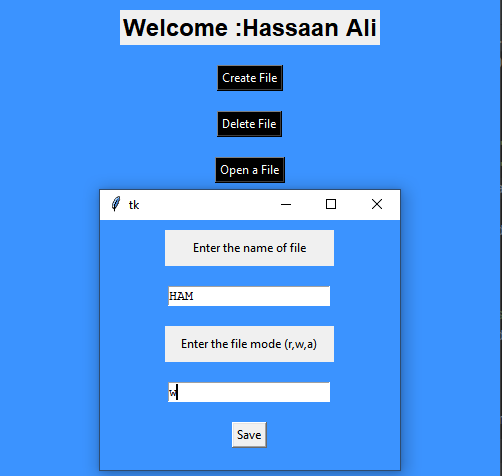


**Username will be visible at the top**



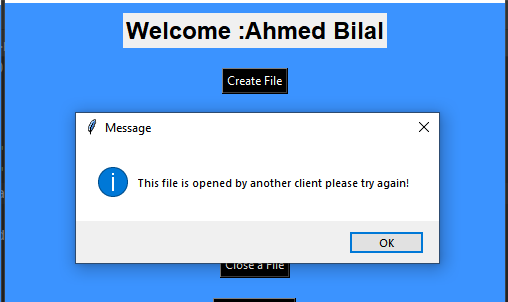


**Suppose we have created a file of name HAM and we have opened this file in a write mode. (Hassaan Ali client). Server will send a successful message to the client.**



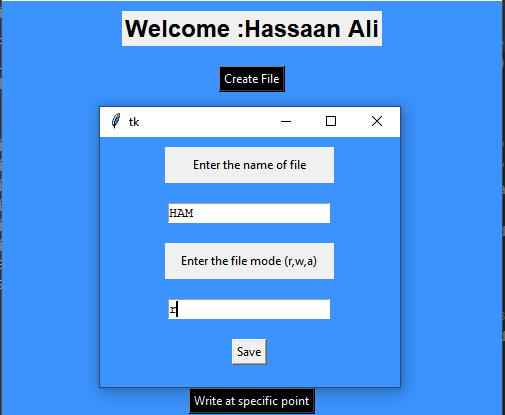


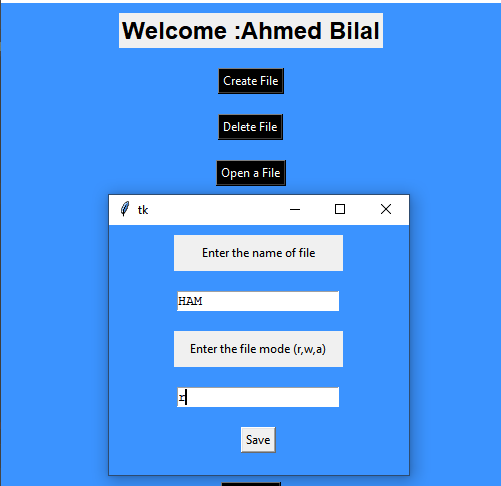
**Now if we try to open this file from another client server will send a warning message.**



**It means only one client is able to write in a file at a time.**

**Now we will open file in read mode and check whether multiple client are able to read at a time or not.**







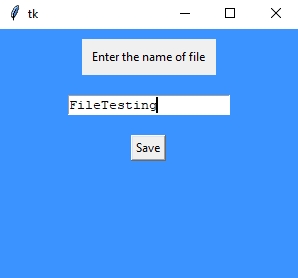
**File is successfully opened. It means multiple client can read the same file at a time.**

**But if another client will try to write into this file, client will receive a warning message.**

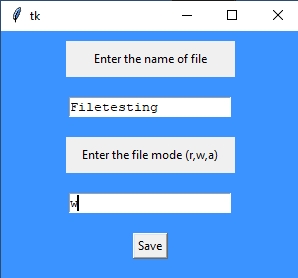
**Client Server Functionality**

**Client 1**

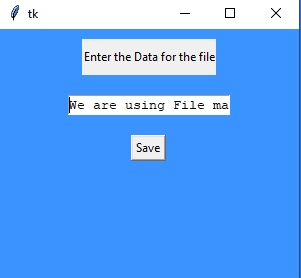
**Create**



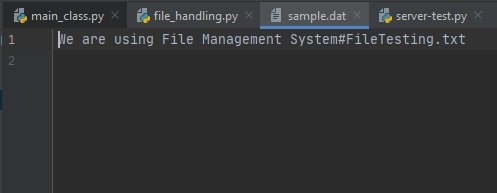
**open**



**Write to a file**



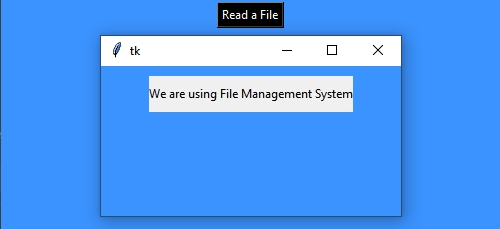
**Server**



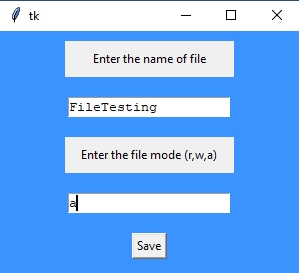
This File Is visible to client 2

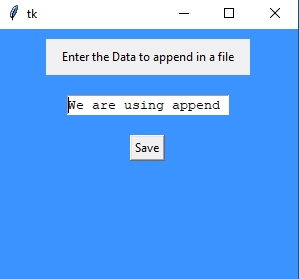
Now we will interact as Client 2

**Client 2**

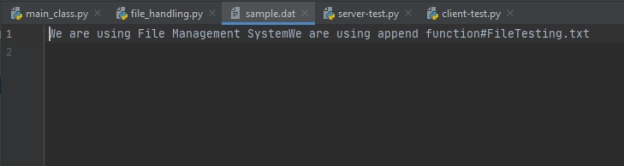


Now we will append in same file as client 2 and see the affect from client 1 view





**Server**



**Client 1**

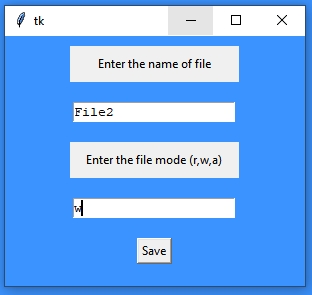
Now we will interact as Client 1

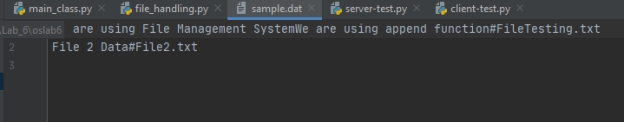


Now we will create another file, perform different operations in Client 1 and download sample.dat file in Client 2

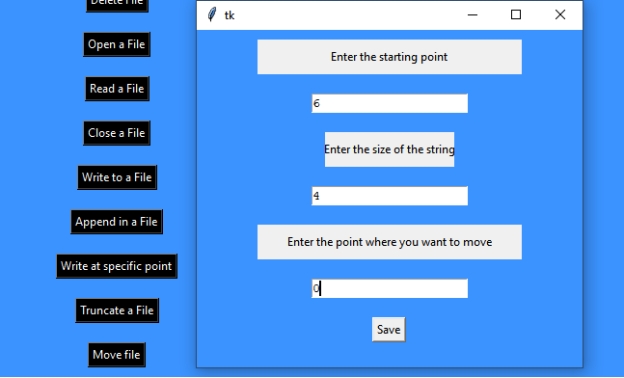
**Client 1**

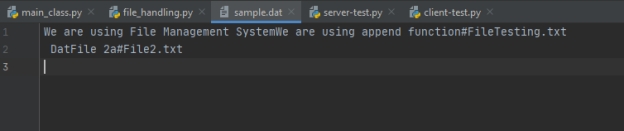
We have created File2 in client 1





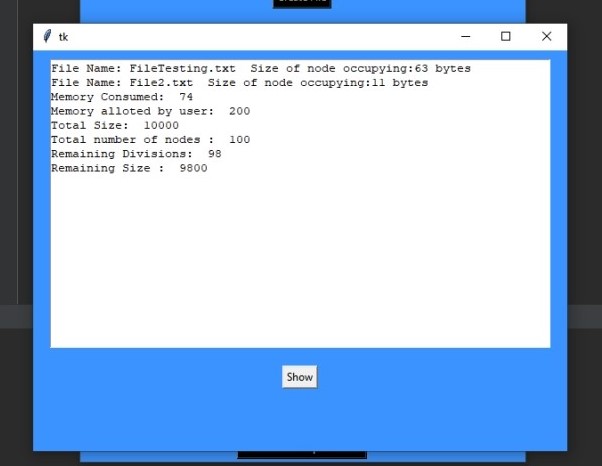
Move within a file function





**Client 2**

First, we will see memory map in client 2



Download sample.dat function in client 2

