Lesson 72 Store Data

In the previous lessons, we learned how to record phone numbers and people's names and store them in memory, but there was a problem, which is that when the program is closed and opened again, the recorded data disappears, but we learned in the previous lessons how we can record data inside a file and here we will use files to record this data in it.

w: Open a file in order to write in it, but if it existed before that and something was written in it, it will delete it and record the new speech.

r: Open a file to read only from it, but if the file does not exist, an error will appear

But in this program, we want to record data on the old data in the event of closing the program, meaning opening the file in order to complete writing data on the previous existing data and here we will use **a** and its meaning **append.**

If there is any previous data in it, he will open it and add the new data to it without deleting it. If there is no file with this name, he will make a new file and add the new data in it. If we want to write and read together, we will add **+** in any of the three cases :

+: read and write

 r+ : read from the file and write

a+ : read and write without deleting previous text

```c
#include <stdio.h>
int main() {
char name[100], number[100];
FILE* contact = fopen("contact.txt", "a+");
//open a file to read it and continue writing
//if this file doesn't exist it will be created
char ch;
while (fscanf(contact, "%c", &ch) != EOF)
printf("%c", ch);
printf("Enter name: ");
scanf("%[^\n]", name);
printf("Enter number: ");
scanf("%s", number);
fprintf(contact, "%s %s\n", name, number);
}
```

Try the code yourself : Click Here!