# File

# Opening a File

You have to open a file before it can be used

path = the name of your file (which can include path information leading to the file's location) which should be a double quoted string or a char array ended by null byte

# Modes of Opening a File

mode = whether the file should be opened for reading or writing

- r Open an existing file for reading.
- w Create a file for writing. If the file already exists, *discard* the current contents.
- **a** Open or create a file for writing at the end of the file—i.e., write operations *append* data to the file.

#### Writing a File

- The first argument should be a FILE \* previously returned by a successful call to fopen.
- fprintf returns the number of characters successfully printed, or a negative number if an error occurs.

### Reading a File

- fscanf returns the number of fields that were successfully scanned in and stored
- fscanf returns EOF if the end of the file was encountered before the desired number of items could be scanned in.

## Closing a File

 After a program has finished using a file it should always be closed

```
int fclose(FILE *stream);
```

#### End of File

```
feof(FILE* stream);
```