Doxygen: Documentation Tool for C/C++ (1)

- ▶ We will use the Doxygen tool to document our projects.
- ▶ With Doxygen, we can use Javadoc style comments and documentation in C/C++ programs. Doxygen will generate HTML documentation similar to how `javadoc` works.
- ▶ To use it, we need a config file, typically named `doxygen-config`. A sample config file has been provided in the singly linked list example folder. To generate the documentation, invoke Doxygen as shown below:
  ```
  doxygen doxygen-config
  ```
- ▶ You will need to modify the project name in this config file to use it on another project.

Doxygen: Documentation Tool for C/C++ (2)

- We can use the `README.md` file as the main page for Doxygen if it has the `{#mainpage}` tag on the title line. the file contains the following structure and tags, then doxygen will use it as the landing page for your project.
- See example README.md from the singly linked list example.

```
Singly-Linked Lists Example {#mainpage}
===========================

@author yourname


File Manifest
-------------
| Filename           | Description |
|--------------------|-------------|
| README.md          | This file  |
| doxygen-config     | Sample config file for doxygen  |
| Makefile           | Build file for this example folder  |
| other files....    |                                      |
```

- When we have a header file like `SinglyLinkedList.h` and the corresponding implementation in the file `SinglyLinkedList.c`, then put the javadoc comments in the header file and doxygen will match it properly.