

CSCI 1301 Book

Contents

General Concepts	1
Writing and Compiling Programs	1
Computer Usage	2
Hello World	2
My First Subtitle!	2
My Second Subtitle	2
Block quote examples	3
Inline Code block	3
Image	3
Label test	3
Link test	3

General Concepts

- Programming languages types and paradigms
 - Machine language instructions
 - Assembly instructions
 - High-Level Programming Languages
 - Object-oriented paradigm and data hiding
- The difference between roles (user, tester, programmer)
- How complex piece of software *reuse* previous pieces.
- The importance of security
 - Types of attack (malware, phishing, social engineering, zero-day)
 - Types of loss (loss of integrity / availability / confidentiality)

Writing and Compiling Programs

- Understand what the “flow of development” is:
 - Having a goal
 - Writing down specifications
 - Creating the source code
 - Running the compiler

- Reading the compiler’s output, warning and error messages
- Looking for documentation and help on-line and off-line
- Testing
- Making sure the program is secure
- Editing
- Reusing
- Using an IDE to
 - Create a project,
 - Perform some of the steps of the “flow of development”,
 - Correctly save and re-open projects,
 - Understand basic features of break points and debugging.

Computer Usage

- How to download and install an IDE in a secure way
- How to share and zip a project
- How to use shortcuts
- How to look for on-line documentation

Hello World

Setting up things. This is a sample document.

My First Subtitle!

Included code block

```
using System;

class Program {
    static void Main() {
        Console.WriteLine("Hello, world!");
    }
}
```

My Second Subtitle

#	Header
1	Table row 1
2	Table row 2
3	Table row 3

Block quote examples

Short

If you automate a mess, you get an automated mess.

Longer

Programming without an overall architecture or design in mind is like exploring a cave with only a flashlight: You don't know where you've been, you don't know where you're going, and you don't know quite where you are.

Inline Code block

Some inline `int` x expressions `x = 0;`.

```
using System;

class Program {
    static void Main() {
        Console.WriteLine("Hello, world!");
    }
}
```

Image

Label test

always use strong passwords and enable 2FA

Link test

Relative Link within same document

Absolute Link¹

Cross lecture link

¹<https://augusta.edu>



Figure 1: “my first image”