CE103 Algorithms and Programming I

Week-5

Fall Semester, 2021-2022

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C Functional Console Programming



Books and Resources

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```
C:\Users\ugur.coruh\Desktop\hello-make>make hello
g++ -o hello hello.c
C:\Users\ugur.coruh\Desktop\hello-make>dir
Volume in drive C is Windows
 Volume Serial Number is 8C3C-8F8C
 Directory of C:\Users\ugur.coruh\Desktop\hello-make
                      <DIR>
11/02/2021 01:44 AM
11/02/2021 01:44 AM <DIR>
                                  73 hello.c
11/02/2021 01:15 AM
                               54,022 hello.exe
11/02/2021 01:44 AM
11/02/2021 01:43 AM
                                 458 Makefile
              3 File(s)
                               54,553 bytes
              2 Dir(s) 101,382,164,480 bytes free
C:\Users\ugur.coruh\Desktop\hello-make>hello.exe
hello, world
C:\Users\ugur.coruh\Desktop\hello-make>
```



Variables

A variable in programming is a container (storage space) for data.

Each variable should be given a unique name to denote the storage region (identifier). Variable names are simply a graphical representation of a memory location. As an example:

```
int playerScore = 95;
```

In this case, playerScore is an int variable. The variable is given the integer value 95 in this case.

A variable's value may be altered, thus the term variable.

```
char ch = 'a';
// some code
ch = 'l';
```

```
Algorithms antique if in injumber is less than 0
    if (number < 0) {
        printf("You entered %d.\n", number);
    }
    printf("The if statement is easy.");
    return 0;
}</pre>
```

Output 1

```
Enter an integer: -2
You entered -2.
The if statement is easy.
```

When the user types -2, the test expression number 0 is evaluated as true. As a result, the value -2 that you typed is displayed on the screen.

Output 2

