**Chapter 1: STANDARD IO LIBRARY**

**Topic – 1: Special I/O Functions**

**For Characters**

***char c = getchar(); // Input***

***putchar(c); // Output***

**For Strings (Unsafe)**

***gets(str); // Input***

***puts(str); // Output***

* These are **unsafe** because they might **overwrite** memory across its limit if a string is passed **larger** than its actual size.

**For Strings (Safe)**

***char str[20];***

***fgets(str, 20, stdin); // 20 is the number of bytes to write***

***fputs(str, stdout);***

**Topic – 2: Format Specifiers**

**Multiple Inputs**

***printf("%d %f %s", &num, &fl, text);***

* Putting a **space** between two **won’t** affect, but putting anything else will.
* **%e** – scientific notation (exponent)

**Rounding Off Floats**

***printf("PI = %3.2f", 3.14159); // PI = 3.14***

* **%3.2** is same as **%-3.2**
* In **%3.2**, **2** is number of digits **after** decimal point.

**Topic – 3: Boolean Expressions**

* Are evaluated from **left to right**.

**NOTE!**

**🡪 Remember expressions like: *if(!(m=='x'||n=='x'))***

**Topic – 4: Loops**

**Do-While Loops**

* A **semicolon** is added at the end of every **do-while** loop block.