



University of Global Village (UGV), Barisal

X Language Documentation

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X Language Documentation:

1. Basic Structure

Concept	C Language	X Language
Header File	#include<stdio.h>	&welcome
Main Function	int main()	starts()
Print Output	printf()	show()
Return Statement	return 0;	&end
Comments	// single-line, /* multi line */	@ single-line, @! Multi line !@

Example:

C Language:	X Language:
#include <stdio.h> int main() { printf("Hello World!"); return 0; }	&welcome starts() { show("Hello World!"); &end }

2. Data Types

C Language	X Language
int	digit
char	text
float	fraction
scanf()	check()

Example:

C Language:	X Language:
int age = 25; char grade = 'A'; float height = 5.9; printf(age); printf(grade); printf(height);	digit age = 25; text grade = 'A'; fraction height = 5.9; show(age); show(grade); show(height);

3. Conditional Statements

C Language Syntax	X Language Syntax
if(condition)	whatif(condition)
else if(condition)	otherwise(condition)
else	ifnot
Switch()...Case()...default() break	Choose()...when()...DEFAULT() stop

If...else:

C Language:	X Language:
<pre>if (mark >= 80) { printf("A+"); } else if (mark >= 50) { printf("Average"); } else { printf("Failed"); }</pre>	<pre>whatif(mark >= 80) { show("A+"); } otherwise(mark >= 50) { show("Average"); } ifnot { show("Failed"); }</pre>

Switch()...Case():

C Language:	X Language:
<pre>switch(day) { case 1: printf("Monday\n"); break; case 2: printf("Tuesday\n"); break; case 3: printf("Wednesday\n"); break; default: printf("Invalid day\n"); }</pre>	<pre>choose day { when 1{ print("Monday") stop } when 2{ print("Tuesday") stop } when 3 { print("Wednesday") stop } DEFAULT { print("Invalid day"); } }</pre>

4. Loops

Loop Type	C Language	X Language
For Loop	for()	during()
While Loop	while()	until()
Do-While Loop	do {} while()	execute {} until()

For Loop:

C Language:	X Language:
<pre>for (int i = 1; i <= 5; i++) { printf("%d ", i); }</pre>	<pre>during(i = 1; i <= 5; i++) { show("%d ", i) }</pre>

While Loop:

C Language:	X Language:
<pre>int i = 1; while (i <= 5) { printf("%d ", i); i++; }</pre>	<pre>digit i = 1 until(i <= 5) { show("%d ", i) i++ }</pre>

Do-While Loop:

C Language:	X Language:
<pre>int i = 1; do { printf("%d ", i); i++; } while (i <= 5);</pre>	<pre>digit i = 1 execute { show("%d ", i) i++ } until(i <= 5)</pre>

Keywords & Syntax:

Feature	C Language	X Language
Header	#include<stdio.h>	&welcome
Main Function	int main()	starts()
Print	printf()	show()
Input	scanf()	check()
Return	return 0	&end
If Statement	if, else if, else	whatif, otherwise, ifnot
Conditional Statement	Switch, Case, defaults	choose, when, DEFAULT
For Loop	for()	during()
While Loop	while()	until()
Do-While Loop	do {} while()	execute {} until()
int	int	digit
char	char	text
float	float	fraction

