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* Data types
* Expressions

legal & illegal c++ Expn

55 + 16 → legal c++ expn

55 + "John" → illegal c++ Expn

* Numeric data types:

Integers (whole nos) such as -7, 42

Floating point nos such as 3.14, -42.67

* Strings & characters:

A string is composed of nos, characters & symbol string literally are placed in double quotation marks: some example are "Hellos" 'my name is david' and similarly characters are single letters & symbol & must be enclosed b/n single quotes like 'a' 'b' etc

* Booleans: The bodean data type return just two possible values: true (1) & false (0)

* Integers: use the int keyword to define the integer data type.

ex: int a = 42;

Signed: A signed integers can hold both -ve & +ve nos

Unsigned: A unsigned integer can hold only +ve nos

short: Half of the default size

long: twice of the default size

Ext unsigned long int a;

* Floating point no : It can hold real no such as 4.0, -3.33 & etc.

Float, double & long double are the 3 different floating point data types

A float is 4 bytes, a double a & of long double can equivalent to a double (8 byte) & 16 byte

ex: double temp = 4.21;

* String : It is an ordered sequence of characters enclosed in double quotation marks. you need to include the <string> library to use the string data type

ex: - #include <string>
using namespace std;
int main() {
string a = "I am learning C++";
return 0;
}

* Characters: A char variable holds 1-byte integer that as integer. the value of a char variable is typically interpreted as an ASCII character & if it enclosed b/n single quote (such as 'a', 'b' etc)

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