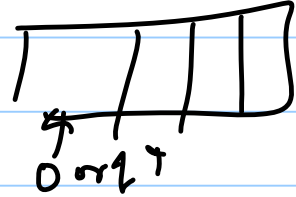


16 GB
 = 16 Giga byte
 = $16 \times 10^9 \times 8 \text{ bits}$
 C++ 100
 Aug 3, 2018
Last Class:-

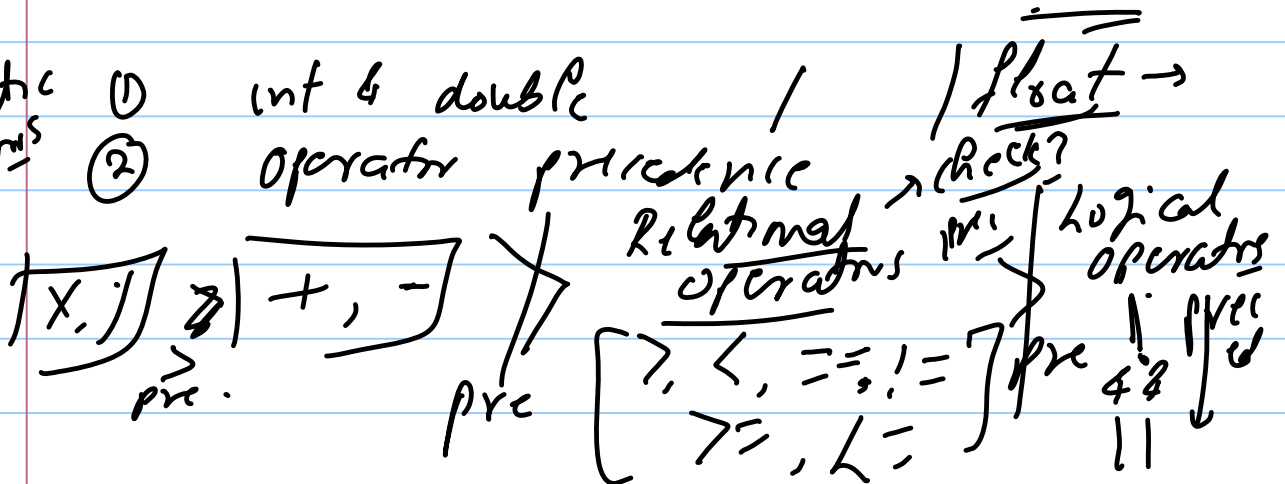


Typing :-

int, double, char, str, bool true
false

char c = 'e'; '1';

Arithmetic
 operators



$$\left[(5 \times 7) \geq (3 + 5 \times (7 - 1)) \right] \&\& (7 \leq 11)$$

$$(35 \geq 33) \&\& (7 \leq 11)$$

true

true

double
messag_1_to_2 = 0.73;

⇓

true

#include <iostream> Inputting from console:-

16
5
n

int main () {

int n; //input from user;
cout << "Enter a number:" << endl;
cin >> n; //print 2 * n

int x = 2 * n;
cout << "The double of your input
number is" << (2 * n) << endl;

m-12
m12

n = 2 * n;

Stanford:-
library

~~name = get~~ "Today was rain"
myline = getline("Enter
a line");
cout << myline;

include <iostream> → in local
include "simpio.h"; → standard library

getInteger(-)
getReal(-)
getline;
getYesOrNo(-);
bool
Yes/No

```
int main() {  
    n = getInteger("Enter a N:");  
    cout << 2 * n << endl;  
}
```

-
- ① int getInteger("str") → Definition
-
- ② double getReal("str")
-
- ③ str getline(str)
-
- ④ }

~~int n;~~ ← 56
~~int n;~~
~~int~~ n = getInteger("Enter No. ");
double x; 56
 str = "Enter a Real No. ";
 x = getReal(str);

double x;
 x = getInteger("Enter: ");
2

↓ Conditionals (3 > 4) → false
 → if (<cond>) { (3 > 6)
 ↓
 3 < 5 < 6
 ↓
 3

if (cond)

cond

if (3 > 4) {

cout << "condition sat";

} else {

cout << "cond not sat";

if () {

} else if () {

} else if () {

→ } else if () {

} else {

}

→ }

if (cond) {

→ }

if (cond) {

} else if (cond 1) {

→ } else {

→ }

```
int main() {
```

```
    int yr;
```

```
    yr = getInteger("Enter  
an year");
```

```
    ((yr % 100 != 0) || (yr % 400 == 0))  
    if ((yr % 4 == 0) &&) {
```

```
        cout << "Leap yr";
```

```
    }  
    else {
```

```
        if (Cond) {  
            // single loop ex.  
            cout << "Not Leap yr";
```

```
        }  
    }
```

```
    if (yr % 4 == 0) {  
        // leap yr
```

$$\begin{array}{l} 23/4 = 5 \\ 23 \% 4 = 3 \end{array}$$

2020

2023

2100 leap
2000 leap

Conditionals

```
int main() {  
    int fav, against;  
    fav = getInteger("Enter #  
                    of votes in  
                    favor");  
    against = getInteger("Enter #  
                        of votes  
                        against");  
    if ( fav > against ) {  
        cout << "success";  
    } else if ( against > fav ) {  
        cout << "failure";  
    } else {  
        cout << "tie";  
    }  
}
```

→ success
→ failure
→ tie