# He	eader files	\circ		
	•	\bigvee		
	iostream		(CP)	
\longrightarrow	iomanip -	setwc)		
	math		bits/stact+.h	
\longrightarrow	agoseithm			
\rightarrow	rector	/		
\rightarrow	quene			
		\bigcup		

Names baces namespace std; coute " 7: Java Internal Personal 7029 namespace sta name Space A &

```
ude<bits/stdc++.h>
                                                                                              Consol
vold FIG()
   std::ig/s_base:/sync_w/th_std/10(0);
   std::cin.tie(0); std::cout/tie(0);
       ONLINE JUDGE
   freopen("input.txt", "r", stdin);
    freopen(/output/ext", "w", stdout);
                                                                                          code
                                                                                             Licous
namespace alka {
void cout(int a) {
                                                                    helpful court cc min
   std::cout << a << " is present" << std::endly
std::string name = "Alka Gupta";
int main() {
   FIO():
   using namespace alka:
   cout(1):
                                                                           own nomespace
   std::cout << "Hi" << std::endl;</pre>
   std::cout << name << std::endl;</pre>
   return 0:
```

cout 3 1 function sign void print(int a) Varameter

ocompiler's giodforeind Main defination return 0;

- se gune votetion fauit [f2 int main () { The turn o

Data Type -> primary / pre-defined/atomic - int - char - string - Boolean - float - double -> void

-> User defined

-> class -> stancture

- structure - Enuva - Type def # stoucture Stident
String name ?
int Holl
float marks pare-defined date types anulgun eg # Class public private protected C++20

```
struct Student {
    string name;
    int roll;
    float marks;
    Student() {
        cout << "Student is Created!" << endl;</pre>
    ~Student() {
        cout << "Student is Destroyed" << endl;</pre>
```

} public

Denator

Operator

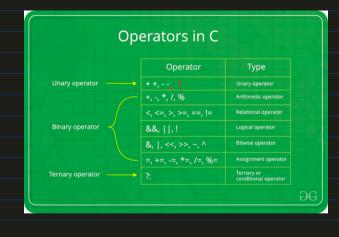
Collection of operators l'operator

operator

operator

	Operator	Type
		Unary operator
	+, -, *, /, %	Arithmetic operator
		Relational operator
Binary operator	&&, ,!	Logical operator
	&, , <<, >>, ~, ^	Bitwise operator
	=, +=, -=, *=, /=, %=	Assignment operator
Ternary operator		Ternary or conditional operator

unary - ove # Binary 9 2 2 6



Ternary
((asb)? a: b

It Assithematic

int
$$a=6$$
 floor $b=6.0$

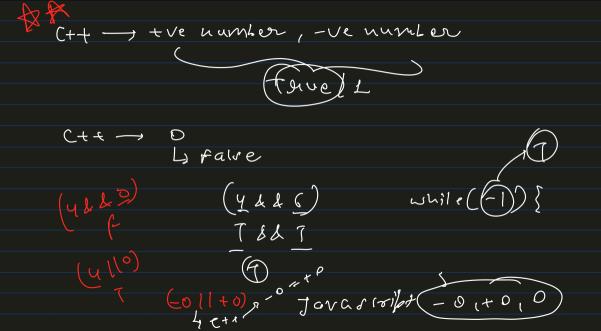
$$a==b$$

dogical

Let progic

$$a = 6$$
, $b = r$, $c = 10$
 $b \neq c$ and

 $a = b \neq b \neq b$
 $b \neq c$
 $c = 10$
 $c = c$
 $c = c$



Bitwise ** bitwise AND OR left shift (< night shift >> Not 4 2 xon V

$$a = 6$$
 $b = 4$
 $a = 6 = 10$
 $a = 6 = 10$

 \rightarrow \leftarrow

10<<1 -> 1010 <<1-> 0101

$$V(0) = V(10) = (00) = (101) = 5$$

$$V(0) = V(100) = (010) = (101) = 5$$

9>>2 -1001>> 2

right shift >>

A B A^B

Truth Table

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Lauguage Enpression -> Right to Left operator Associativity a+= 4 --) a = a + 4 a = 4 % 9 a-=4 = a=a-4 ... a f = 4

Assignment operator (=)

