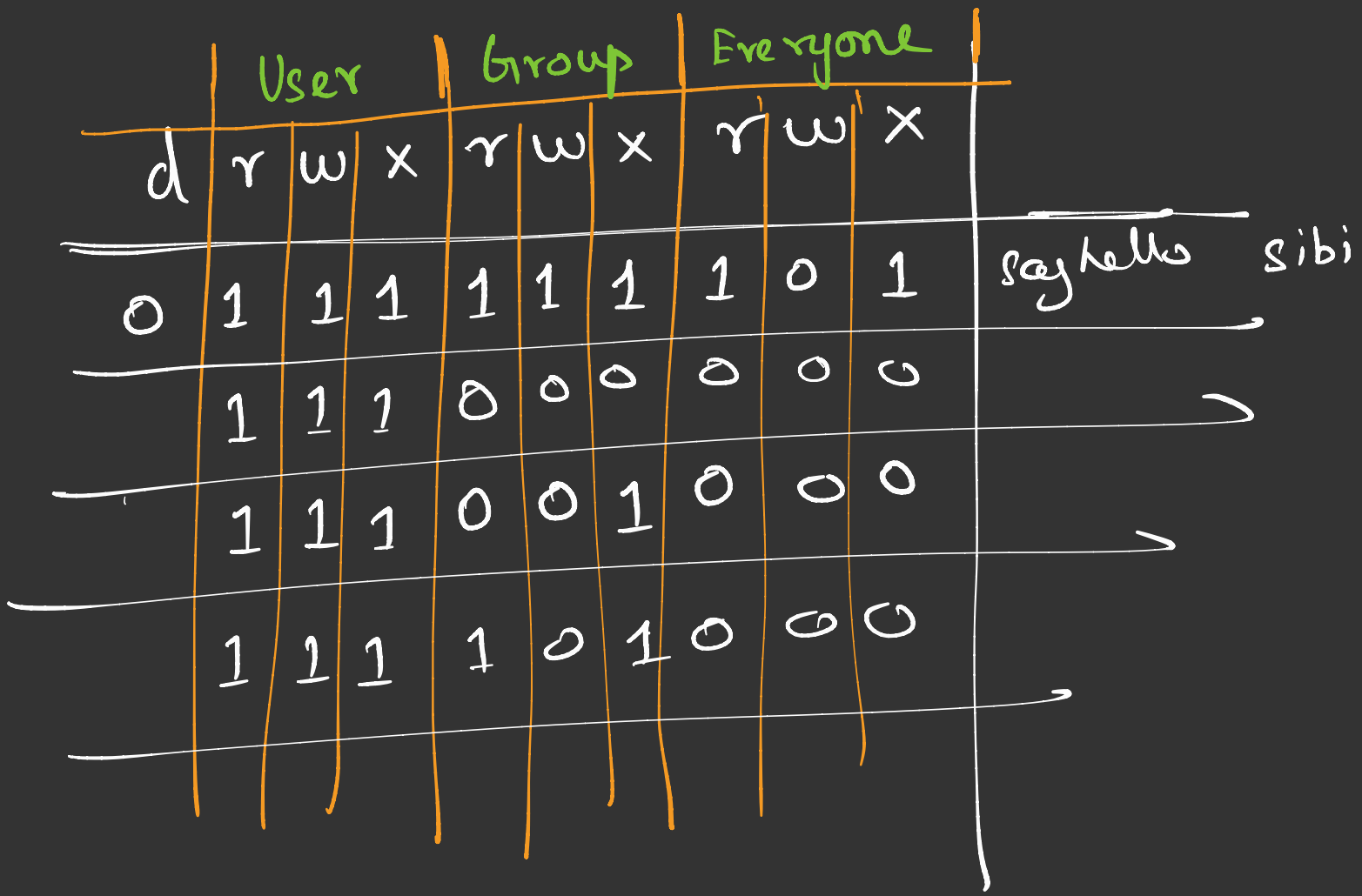
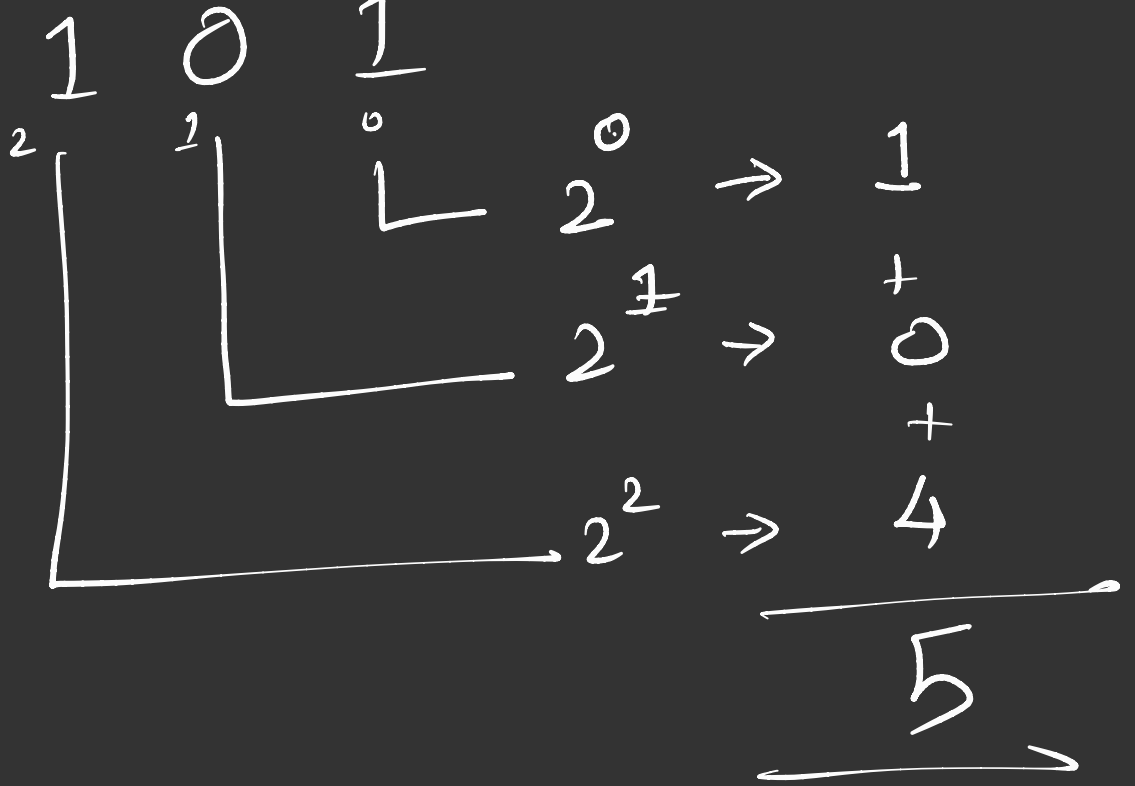

User
Group
Everyone
d r w x r w x r w x
0 1 1 1 1 1 1 1 0 1
1 1 1 0 0 0 0 0 0
1 1 1 0 0 1 0 0 0
1 1 1 1 0 1 0 0 0
sayhello sibi


1 0 1
2 1 0
$2^0 \Rightarrow 1$
+
$2^1 \Rightarrow 0$
+
$2^2 \Rightarrow 4$
5

Pseudocode :

If (condition)
    set of tasks;
else
    set of tasks;

1) function calls
2) Statements
3) Expressions
4) Assignments
5) More control structs

-> It can't be compiled
-> Syntax don't matter
-> Meaning matters (human)

Loops:

while → for:

while (condition) {

}

1 byte = 8 bits

2^3 - 8 (0 - 7)

2^4 - 16 (0 - 15)

2^8 - 256 (0 - 255)

2^{16} - 65536 (0 - 65535)

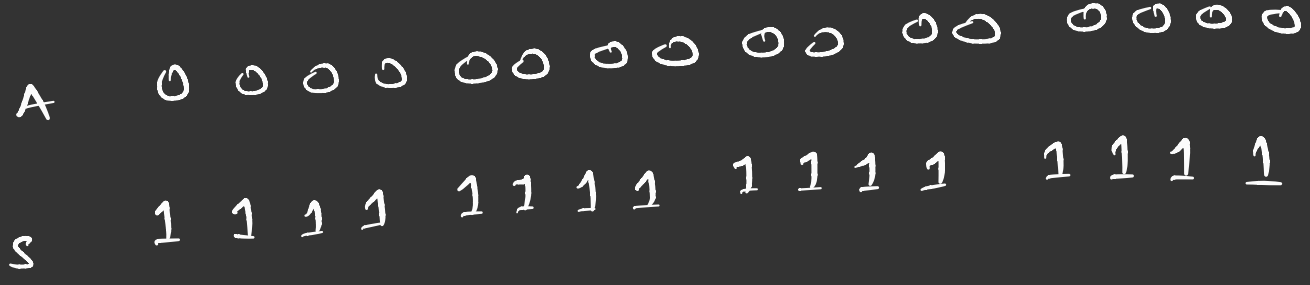
2^{32}

Fundamentals –

Variables : It is a place that can hold data.

```
int i;
```

(2 bytes = 16 bits)



Types of Variables:

Built-In

1) Integer (int)
2) Character (char)
3) Float (float)
4) Double (double)
5) String (char [])

1) Built-in Data Types
2) Derived Data Types.

$$f(x, y) = x^2 + y^2$$

$x = 2$

$y = 3$

what is $f(2, 3)$

Format Specifiers :

%.s – String

%.d – Integer

%.ld – long;

%.f – float ; %.lf – double

%.u – long ;

%.c – Character

To compile:

```
$ gcc -o <output_file> <input_file>
$ gcc -o types types.c
```

To execute:

```
$ ./types
```