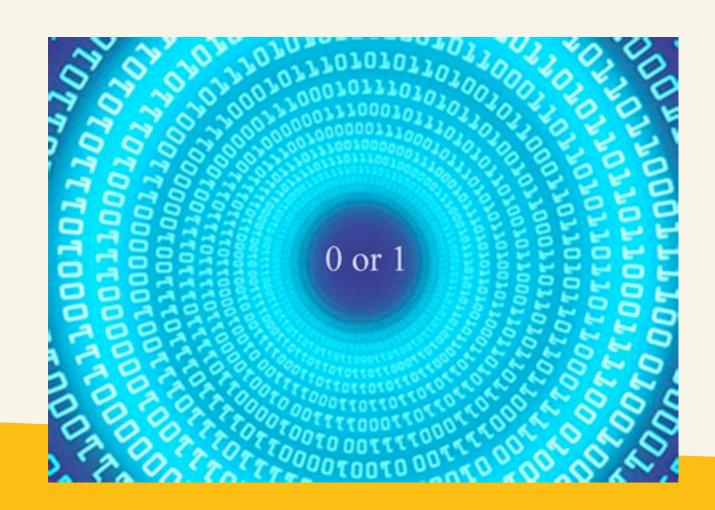


BITS

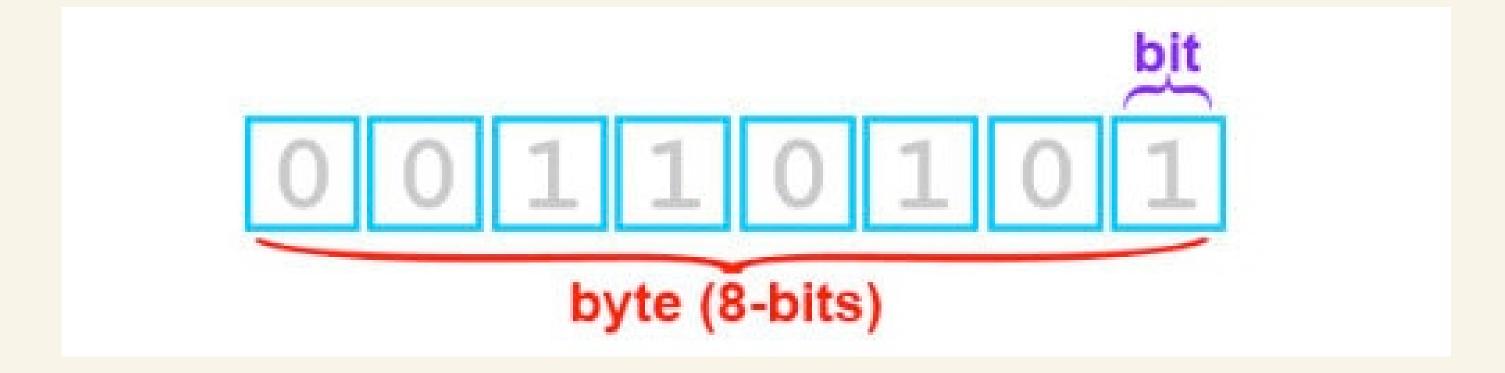
Binary digITS --> bits 2 states/letter (on or off)



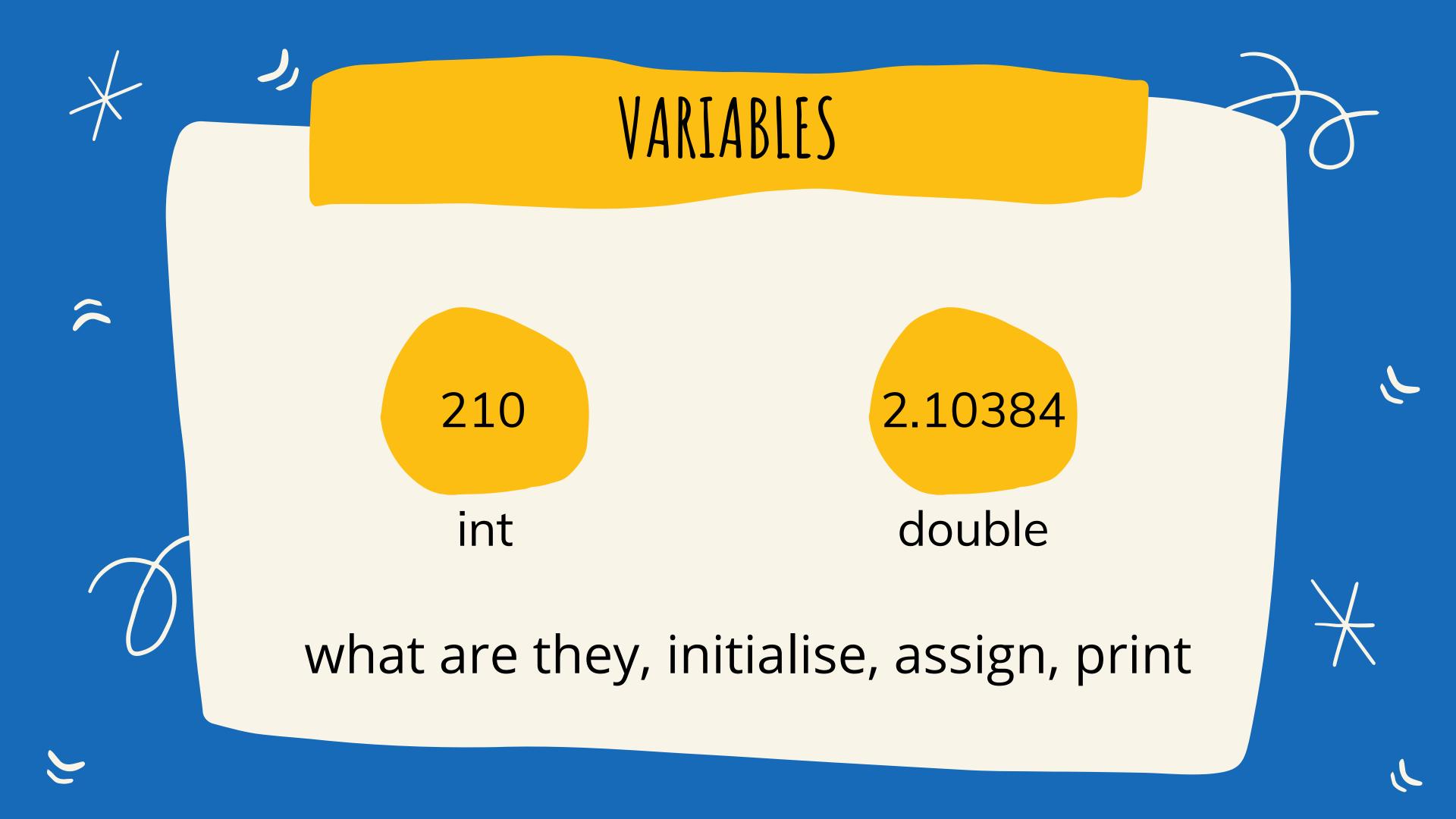


BYTES

letters --> words
8 'letter' words = bytes
possible values?





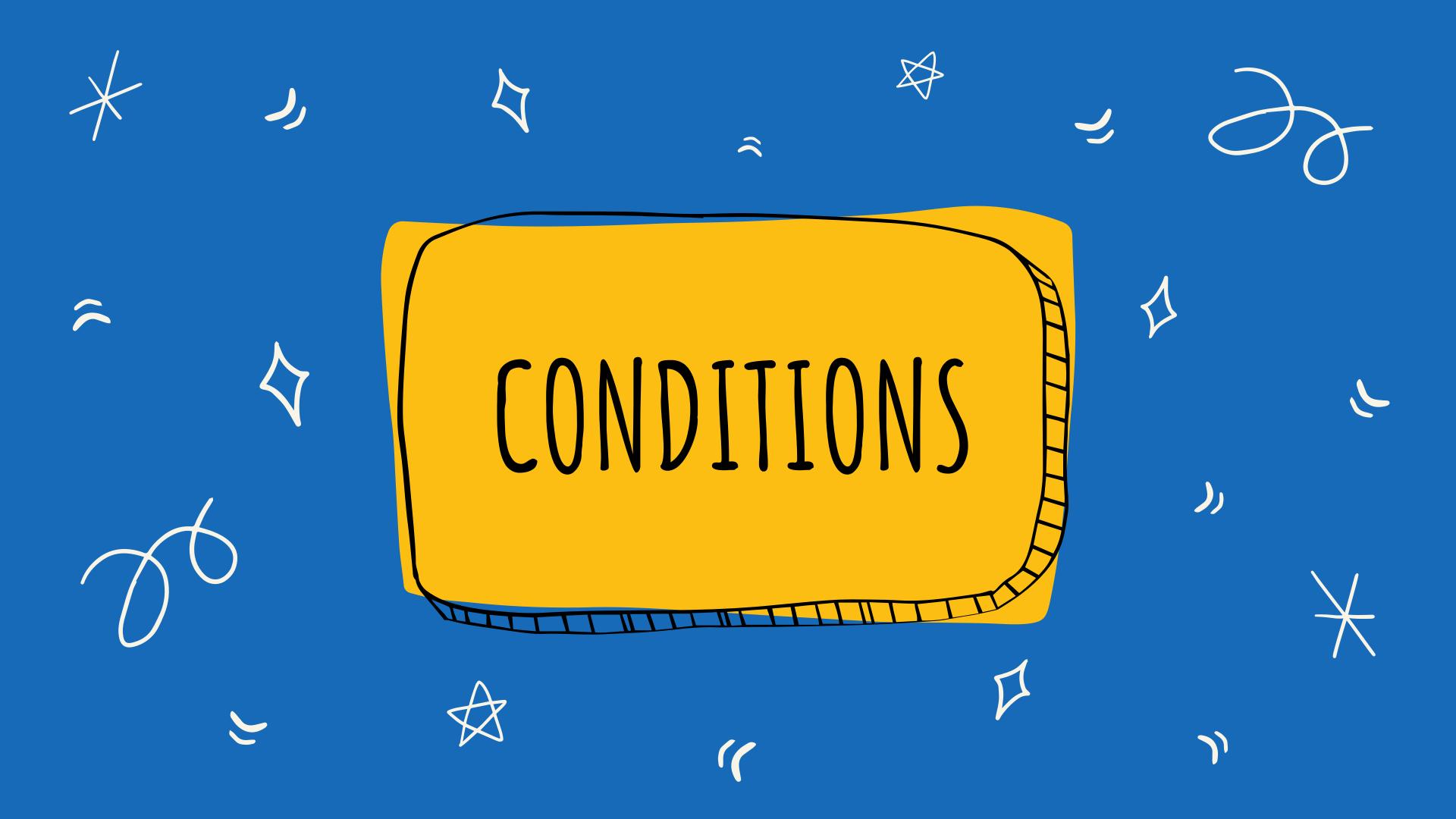


LET'S TALK ABOUT CONSTANTS

- fixed values
- reusable
- make our code more readable
- makin' a constant







CONDITIONS IN C

- defines which way to go
- can have multiple options

```
if (condition){
    // things that are indented
} else if (condition){
    // things that are indented
} else {
    // things that are indented
}
```





- comparing things (logical operators)
- chaining our comparisons



COMPARISONS

CHAINING

```
&&
||
!
```



SCANNING

- Read input in from the user
- what's with the '&'?





QUICK MATHS!

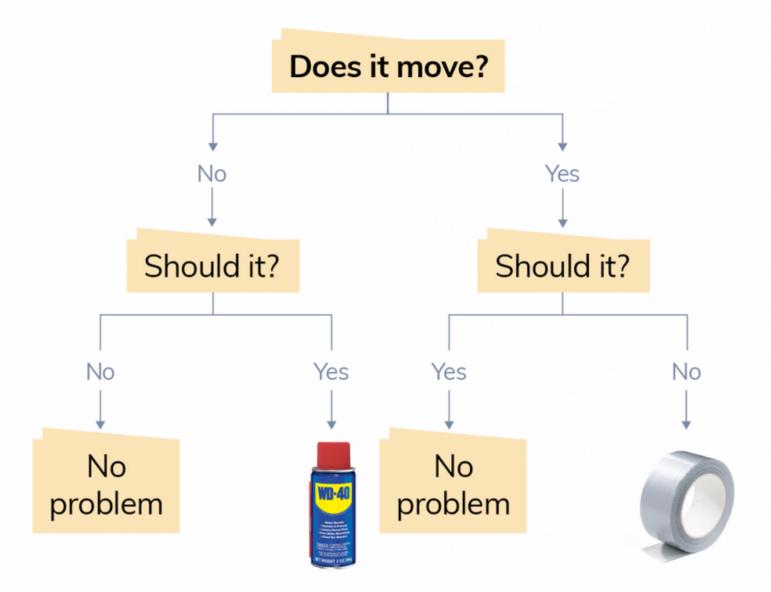
```
+
-
/
*
%
```

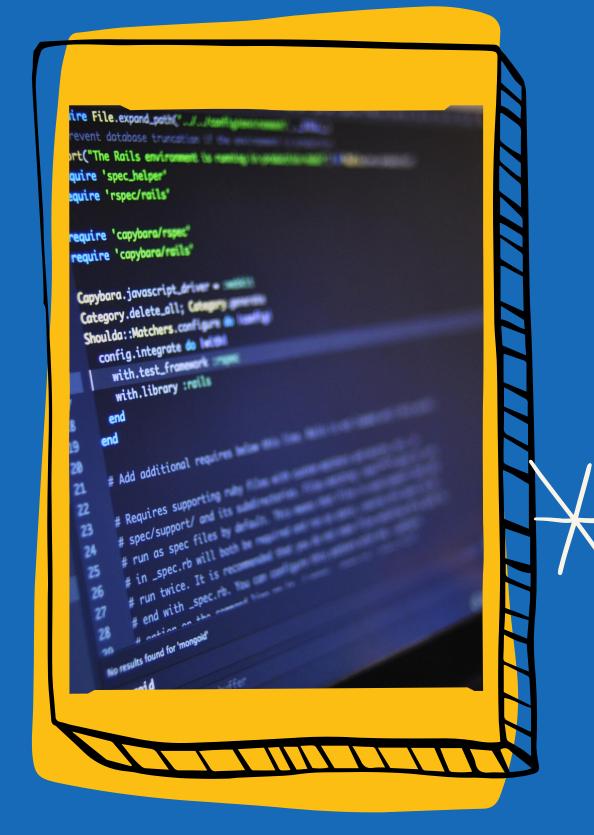
```
1/2 * 500
1/2.0 * 500
(17/5) * 5 + (17 % 5)
(12 - 17) % 6 - 4
```



LET'S WRITE SOME CODE!

Engineering Flowchart







LEAP YEAR LOGIC

How can we determine if a given year is a leap year?

https://en.wikipedia.org/wiki/Leap_year#Algorithm





LAB 2 NOTES Small groups ~ share screen/work together

Small groups ~ share screen/work together quiet room checkout room ~ mark off roll feedback form (https://forms.gle/Mi8RPGw6DGgRs4DMA)









