comp1511 week 04

admin

- assignment 1 has been released!
 - please watch the livestream if you haven't already
 - due 27th March 2023 8pm
- this Sunday is census date feel free to chat to me if you are concerned about your progress in the course

agenda for today

- array practice
- scanning in loops
- functions practice
- assignment 1 walkthrough

array demo (see array.c)

arrays practice

Copy Array (Student Round Robin)
☐ Create an array of doubles with 3 elements, each with a non-zero value.
\square Create another array of doubles with 10 elements where every element initialised to
⊘. ⊘ .
\square Create a while loop that loops through every element of the first array.
\square Copy the elements of the first array into the second array (leave 0's at the end)
\square Create a while loop that prints out all the elements of the second array.
Largest Character (Student Round Robin)
☐ Create a character array with exactly 8 elements.
☐ Create a character variable called <code>largest_character</code> , equal to the first character of
the array.
\square Create a while loop to loop through the character array.
\square Create an if statement to check if the current character has a higher ascii value than
"largest_character"
☐ Print out the largest character you've found.

scanning values into array(see scan_into_array.c)

how do we scan 10 values into an array and find the maximum value?

scanning until ctrl+d (see scan_end_of_input.c)

we will write a program that will keep scanning in values until the user presses CTRL + D

functions

how can we write a function that squares a number?

functions kahoot

```
struct colour {
    int red;
    int green;
    int blue;
};
```

```
struct colour make_colour(int red, int green, int blue) {
    struct colour new_colour;

    new_colour.red = red;
    new_colour.green = green;
    new_colour.blue = blue;

    return new_colour;
}
```

https://create.kahoot.it/share/writting-colours-22t3/49303d4d-b0c4-468e-90d6-4c92ce97bc8b

assignment 1 walkthrough

https://cgi.cse.unsw.edu.au/~cs1511/23T1/assignments/ass1/index.html

- style tips:
 - include a header comment with all information,
 - run 1511 style cs_defence.c
 - #define all constants AND all char commands
 - e.g. #define CREATE_TOWER 't' and #define TRUE 1
 - make sure output matches examples in spec exactly
 - above every function, there should be a comment explaining its purpose
 - use helper functions!

any questions?