WELCOME TO CSCUV4

WEEK 3

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PLAN FOR TODAY



Group A

12 – 12:15

> Presentation

12:15 – 12:25

> Q&A

12:25 – 1pm

> Exercises & checkpoints



Group B

lpm – 1:15pm

> Presentation

1:15pm – 1:25pm

> Q&A

1:25pm – 2pm

> Exercises & checkpoints

LAST WEEK



The Main function



How to compile



First program



Standard I/O

TODAY



getchar putchar



Arrays



- Here we teach you the syntax and the semantic of C.
- But remember that you need to practice by yourself.

```
#include <stdio.h>
    int main()
 4
        char c;
 6
        c = getchar();
        printf(" %c ", c);
 9
        return 0;
10
11
12
```

```
#include <stdio.h>
    int main()
       char c;
                              Input: a
       c = getchar();
                              Output: a
       printf(" %c ", c);
 9
10
       return 0;
11
12
```

```
#include <stdio.h>
3 ~ int main()
4
                               Input: a
 5
       int c;
 6
       c = getchar();
                               Output: ?
       printf(" %c ", c);
8
9
10
       return 0;
11
12
```

12

```
#include <stdio.h>
3 ~ int main()
4
                               Input: a
5
       int c;
6
       c = getchar();
                               Output: a
       printf(" %c ", c);
8
9
10
       return 0;
11
```

Memory

97

```
#include <stdio.h>
 2
 3 vint main()
        int c;
 6
        c = getchar();
        printf(" %d ", c);
8
9
        return 0;
10
11
12
```

Input: a

Output: 97

PUTCHAR();

```
#include <stdio.h>
3 vint main()
4
        char c = 'a';
 5
        putchar(c);
6
8
        return 0;
10
```

PUTS();

```
#include <stdio.h>
    int main()
        char str[] = "Hello World";
        puts(str);
6
        return 0;
10
```

FGETS();

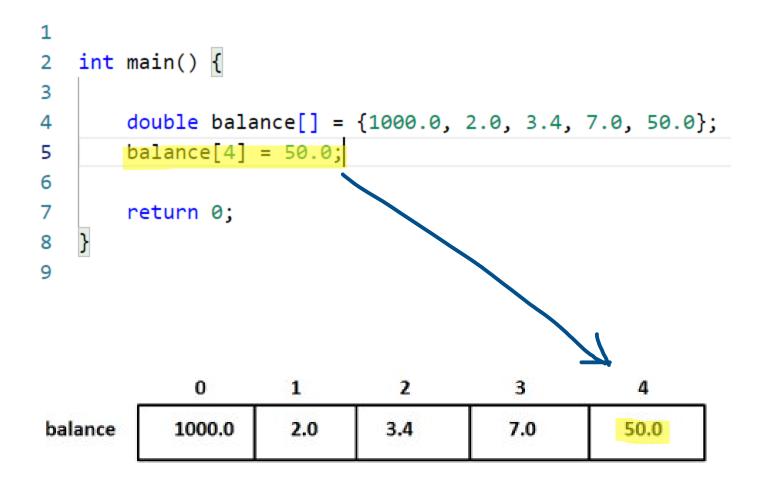
```
#include <stdio.h>
    int main () {
       char str[50];
       fgets(str, sizeof(str), stdin);
 6
       printf("You entered: %s", str);
       return(0);
10
11
```

- **str** This is the pointer to an array of chars where the string read is stored.
- sizeof(str) The length of the array passed as str is used.
- **stdin** The stream where characters are read from.

ARRAYS (1)

```
int main() {
       int a[] = \{1, 6, 9, 3\};
      int b[4];
6
       return 0;
```

ACCESSING ARRAY ELEMENTS



INITIALIZE ELEMENTS

```
1 #include <stdio.h>
    int main () {
 4
       int n[ 10 ];
 6
       for (int i=0; i<10; i++) {
         n[i] = i+100;
 8
 9
10
       return 0;
11
12
13
```

Any Questions?

Thank you