LECTURE 3 ASSIGNMENT

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1.)

```c
// #1
#include <stdio.h>
#include <stdbool.h>
int main (void) {
    int age;
    bool teenager = false;

    printf("Enter age: ");
    scanf("%i", &age);

    if (age >= 13 && age <= 19) {
        teenager = true;
    }
    printf("\nA teenager? %s",teenager ? "True" : "False");
    return 0;
}
```

```
"C:\Users\bbmun\OneDrive\Documents\UPV BSC...
Enter age: 18

A teenager? True
Process returned 0 (0x0)   execution time : 8.938 s
Press any key to continue.
```

```c
// #1
#include <stdio.h>
#include <stdbool.h>
int main (void) {
    int age;
    bool teenager = false;

    printf("Enter age: ");
    scanf("%i", &age);

    if (age >= 13 && age <= 19) {
        teenager = true;
    }
    printf("\nA teenager? %s",teenager ? "True" : "False");
    return 0;
}
```

```
"C:\Users\bbmun\OneDrive\Documents\UPV...
Enter age: 25

A teenager? False
Process returned 0 (0x0)   execution time : 4.480 s
Press any key to continue.
```

2.)

```c
// #2
#include <stdio.h>
int main (void) {
    int first, second;

    printf("Enter a two-digit number: ");
    scanf("%1d%1d",&first,&second);
    printf("\nNumber entered in words: ");

    // numbers 10 to 19
    if (first == 1){
        switch(second) {
            case 0: printf("ten"); break;
            case 1: printf("eleven"); break;
            case 2: printf("twelve"); break;
            case 3: printf("thirteen"); break;
            case 4: printf("fourteen"); break;
            case 5: printf("fifteen"); break;
            case 6: printf("sixteen"); break;
            case 7: printf("seventeen"); break;
            case 8: printf("eighteen"); break;
            case 9: printf("ninteen"); break;
        }
        return 0;
    }
    // numbers 20 to 99
    switch(first) {   //first digit
        case 2: printf("twenty"); break;
        case 3: printf("thirty"); break;
        case 4: printf("forty"); break;
        case 5: printf("fifty"); break;
        case 6: printf("sixty"); break;
        case 7: printf("seventy"); break;
        case 8: printf("eighty"); break;
        case 9: printf("ninety"); break;
    }
    switch(second) {  //second digit
        case 1: printf("-one"); break;
        case 2: printf("-two"); break;
        case 3: printf("-three"); break;
        case 4: printf("-four"); break;
        case 5: printf("-five"); break;
        case 6: printf("-six"); break;
        case 7: printf("-seven"); break;
        case 8: printf("-eight"); break;
        case 9: printf("-nine"); break;
    }
    return 0;
}
```

```
"C:\Users\bbmun\OneDrive\Documents\UPV BSCS...
Enter a two-digit number: 21

Number entered in words: twenty-one
Process returned 0 (0x0)   execution time : 5.265 s
Press any key to continue.
```

```c
// #2
#include <stdio.h>
int main (void) {
    int first, second;

    printf("Enter a two-digit number: ");
    scanf("%1d%1d",&first,&second);
    printf("\nNumber entered in words: ");

    // numbers 10 to 19
    if (first == 1){
        switch(second) {
            case 0: printf("ten"); break;
            case 1: printf("eleven"); break;
            case 2: printf("twelve"); break;
            case 3: printf("thirteen"); break;
            case 4: printf("fourteen"); break;
            case 5: printf("fifteen"); break;
            case 6: printf("sixteen"); break;
            case 7: printf("seventeen"); break;
            case 8: printf("eighteen"); break;
            case 9: printf("ninteen"); break;
        }
        return 0;
    }
    // numbers 20 to 99
    switch(first) {   //first digit
        case 2: printf("twenty"); break;
        case 3: printf("thirty"); break;
        case 4: printf("forty"); break;
        case 5: printf("fifty"); break;
        case 6: printf("sixty"); break;
        case 7: printf("seventy"); break;
        case 8: printf("eighty"); break;
        case 9: printf("ninety"); break;
    }
    switch(second) {  //second digit
        case 1: printf("-one"); break;
        case 2: printf("-two"); break;
        case 3: printf("-three"); break;
        case 4: printf("-four"); break;
        case 5: printf("-five"); break;
        case 6: printf("-six"); break;
        case 7: printf("-seven"); break;
        case 8: printf("-eight"); break;
        case 9: printf("-nine"); break;
    }
    return 0;
}
```