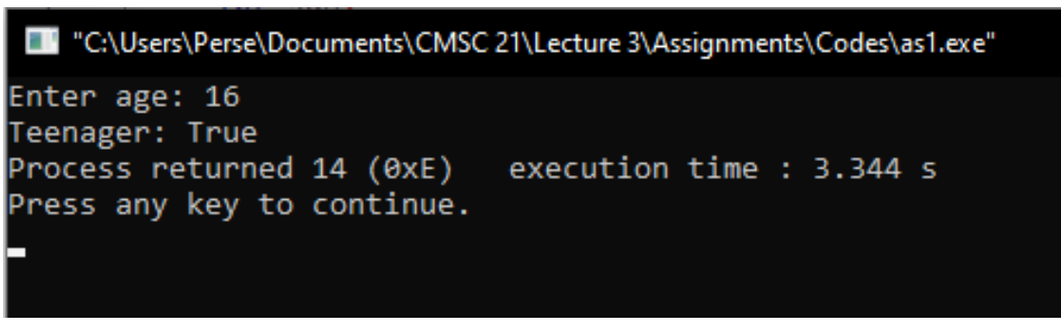
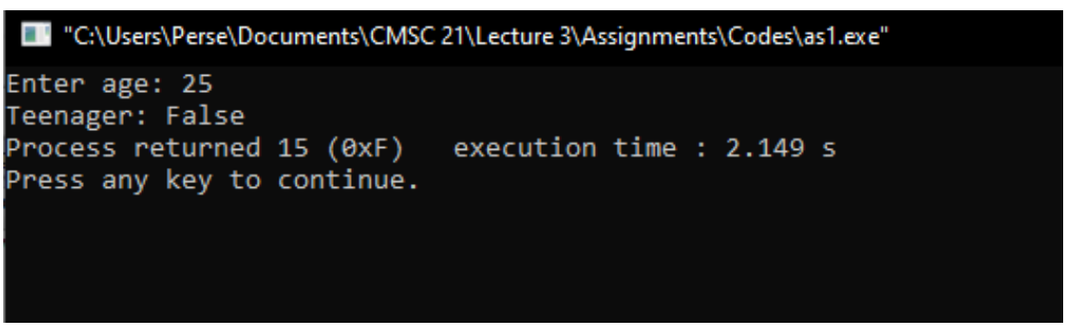
Perserose Catalan

Lecture 3 Assignment

1.

```c
#include <stdio.h>
#include <stdbool.h>

int main (void)
{

    int age;
    bool teenager = false;

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

    if (age >= 13 && age <= 19) {
        teenager = true;
    }

    printf ("Teenager: %s", teenager ? "True" : "False");

}
```



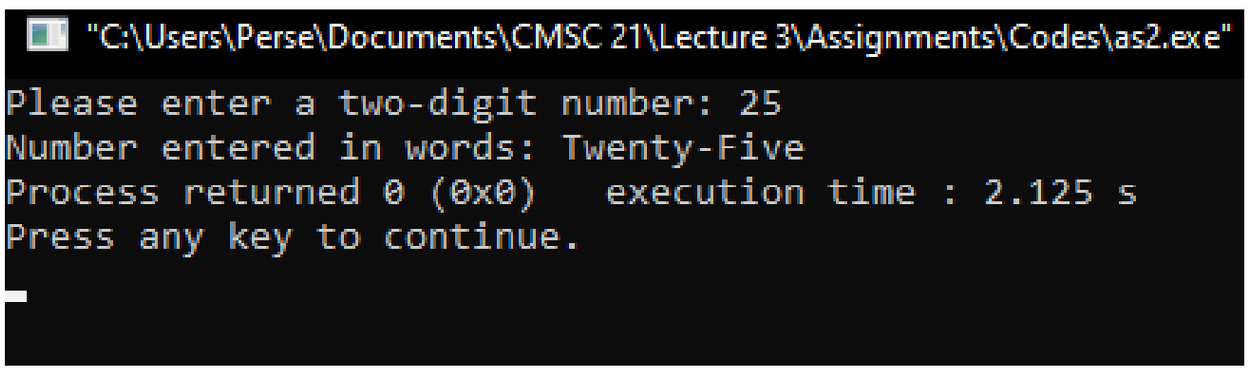


2.

as1.c as2.c

```c
#include <stdio.h>

int main (void)
{

    //declare variables
    int num_1, num_2;

    //user input
    printf("Please enter a two-digit number: ");
    scanf("%1d%1d", &num_1, &num_2);

    printf("Number entered in words: ");

    //first digit
    switch (num_1 % 10)
    {
        case 1:

            switch (num_2 & 10)
            {
                case 0:
                    printf("Ten");
                case 1:
                    printf("Eleven");
                case 2:
                    printf("Twelve");
                case 3:
                    printf("Thirteen");
                case 4:
                    printf("Fourteen");
                case 5:
                    printf("Fifteen");
                case 6:
                    printf("Sixteen");
                case 7:
                    printf("Seventeen");
                case 8:
                    printf("Eighteen");
                case 9:
                    printf("Ninteen");
            }

        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 (num_2 % 10)
    {
        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;
}
```



Github Link:

https://github.com/purseerus/CMSC-21