

Lecture 3 Assignment

1.

```
#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");
}
```

```
"C:\Users\Perse\Documents\CMSC 21\Lecture 3\Assignments\Codes\as1.exe"
Enter age: 16
Teenager: True
Process returned 14 (0xE)   execution time : 3.344 s
Press any key to continue.
```

```
"C:\Users\Perse\Documents\CMSC 21\Lecture 3\Assignments\Codes\as1.exe"
Enter age: 25
Teenager: False
Process returned 15 (0xF)   execution time : 2.149 s
Press any key to continue.
```

2.

```
1  #include <stdio.h>
2
3  int main (void)
4  {
5
6      //declare variables
7      int num_1, num_2;
8
9      //user input
10     printf("Please enter a two-digit number: ");
11     scanf("%1d%1d", &num_1, &num_2);
12
13     printf("Number entered in words: ");
14
15     //first digit
16     switch (num_1 % 10)
17     {
18         case 1:
19
20             switch (num_2 % 10)
21             {
22                 case 0:
23                     printf("Ten");
24                 case 1:
25                     printf("Eleven");
26                 case 2:
27                     printf("Twelve");
28                 case 3:
29                     printf("Thirteen");
30                 case 4:
31                     printf("Fourteen");
32                 case 5:
33                     printf("Fifteen");
34                 case 6:
35                     printf("Sixteen");
36                 case 7:
37                     printf("Seventeen");
38                 case 8:
39                     printf("Eighteen");
40                 case 9:
41                     printf("Nineteen");
42             }
43
44         case 2:
45             printf("Twenty");
46             break;
47         case 3:
48             printf("Thirty");
49             break;
50         case 4:
51             printf("Forty");
52             break;
53         case 5:
54             printf("Fifty");
55             break;
56         case 6:
57             printf("Sixty");
58             break;
59         case 7:
60             printf("Seventy");
61             break;
62         case 8:
63             printf("Eighty");
64             break;
65         case 9:
66             printf("Ninety");
67             break;
68     }
69     switch (num_2 % 10)
70     {
71         case 1:
72             printf("-One");
73             break;
```

```

73         break;
74     case 2:
75         printf("-Two");
76         break;
77     case 3:
78         printf("-Three");
79         break;
80     case 4:
81         printf("-Four");
82         break;
83     case 5:
84         printf("-Five");
85         break;
86     case 6:
87         printf("-Six");
88         break;
89     case 7:
90         printf("-Seven");
91         break;
92     case 8:
93         printf("-Eight");
94         break;
95     case 9:
96         printf("-Nine");
97         break;
98
99
100 }
101
102 return 0;
103 }
104

```

```

"C:\Users\Perse\Documents\CMSC 21\Lecture 3\Assignments\Codes\as2.exe"
Please enter a two-digit number: 25
Number entered in words: Twenty-Five
Process returned 0 (0x0)   execution time : 2.125 s
Press any key to continue.

```

Github Link:

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