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2021-03842

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1.

```
1  /* ~~~~~
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5  ~~~~~ */
6
7  #include <stdio.h>
8  #include <stdbool.h>
9
10 void main() {
11     bool teenager;
12     int age;
13
14     printf("Input age: ");
15     scanf("%d", &age);
16
17     teenager = (age>=13 && age<=19);
18
19     printf("Teenager: %s", teenager ? "TRUE" : "FALSE");
20 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell  
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Users\User> cd "c:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming"

Input age: 15  
Teenager: TRUE

PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming> if (\$?) { .\as1 }

Input age: 8  
Teenager: FALSE

PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming>

2.

```
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5  ~~~~~ */
6
7  #include <stdio.h>
8
9  int main() {
10     int num;
11
12     printf("Input two-digit number: ");
13     scanf("%d", &num);
14     printf("Input is ");
15
16     // tenths digit
17     switch (num/10) {
18         case 1: // teens
19             switch (num%10) {
20                 case 0:
21                     printf("ten.");
22                     break;
23
24                 case 1:
25                     printf("eleven.");
26                     break;
27                 case 2:
28                     printf("twelve.");
29                     break;
30                 case 3:
31                     printf("thirteen.");
32                     break;
33                 case 4:
34                     printf("forteen.");
35                     break;
36                 case 5:
37                     printf("fifteen.");
38                     break;
39                 case 6:
40                     printf("sixteen.");
41                     break;
42                 case 7:
43                     printf("seventeen.");
44                     break;
45                 case 8:
46                     printf("eighteen.");
47                     break;
48                 case 9:
49                     printf("nineteen.");
50                     break;
51             }
52             break;
53
54         case 2:
55             printf("twenty");
56             break;
57
58         case 3:
59             printf("thirty");
60             break;
61
62         case 4:
63             printf("forty");
64             break;
65
66         case 5:
67             printf("fifty");
68             break;
69
70         case 6:
71             printf("sixty");
72             break;
73
74         case 7:
75             printf("seventy");
76             break;
77
78         case 8:
79             printf("eighty");
80             break;
81
82         case 9:
83             printf("ninety");
84             break;
85
86         default:
87             printf("Invalid input! Must be two-digit positive integer. Try again.");
88             return 0;
89     }
90
91     //ones digit
92     switch (num%10) {
93         case 1:
94             printf("-one");
95             break;
96
97         case 2:
```

<pre> 98         printf("-two"); 99         break; 100 101     case 3: 102         printf("-three"); 103         break; 104 105     case 4: 106         printf("-four"); 107         break; 108 109     case 5: 110         printf("-five"); 111         break; 112 113     case 6: 114         printf("-six"); 115         break; 116 117     case 7: 118         printf("-seven"); 119         break; 120 121     case 8: 122         printf("-eight"); 123         break; 124 125     case 9: 126         printf("-nine"); 127         break; 128     } 129 130     printf("."); 131     return 0; 132 } </pre>	<pre> PS C:\Users\User&gt; cd "c:\Us Input two-digit number: 0 Input is Invalid input! Mus PS C:\Users\User\Documents\ if (\$?) { .\as2 } Input two-digit number: 10 Input is ten. PS C:\Users\User\Documents\ if (\$?) { .\as2 } Input two-digit number: 15 Input is fifteen. PS C:\Users\User\Documents\ if (\$?) { .\as2 } Input two-digit number: 25 Input is twenty-five. PS C:\Users\User\Documents\ if (\$?) { .\as2 } Input two-digit number: 90 Input is ninety. PS C:\Users\User\Documents\ if (\$?) { .\as2 } Input two-digit number: 42 Input is forty-two. PS C:\Users\User\Documents\ </pre>
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Github link: <https://github.com/Pawmsday/CMSC21/tree/main/Lecture3/Assignments>