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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.

```
1  /* ~~~~~  
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5  ~~~~~ */  
6  
7  #include <stdio.h>  
8  
9  int main(void) {  
10     int num;  
11  
12     printf("Input two-digit number: ");  
13     scanf("%d", &num);  
14  
15     printf("Input is ");  
16     // Tens Digit  
17     switch (num/10) {  
18         // teens  
19         case 1:  
20             switch (num%10) {  
21                 case 0: printf("ten."); break;  
22                 case 1: printf("eleven."); break;  
23                 case 2: printf("twelve."); break;  
24                 case 3: printf("thirteen."); break;  
25                 case 4: printf("fourteen."); break;  
26                 case 5: printf("fifteen."); break;  
27                 case 6: printf("sixteen."); break;  
28                 case 7: printf("seventeen."); break;  
29                 case 8: printf("eighteen."); break;  
30                 case 9: printf("nineteen."); break;  
31             }  
32         return 0;  
33  
34         // non-teens  
35         case 2: printf("twenty"); break;  
36         case 3: printf("thirty"); break;  
37         case 4: printf("forty"); break;  
38         case 5: printf("fifty"); break;  
39         case 6: printf("sixty"); break;  
40         case 7: printf("seventy"); break;  
41         case 8: printf("eighty"); break;  
42         case 9: printf("ninety"); break;  
43  
44         // invalid input  
45         default:  
46             printf("Invalid input! Must be two-digit positive integer. Try again.");  
47             return 0;  
48     }
```

```
50     // Ones Digit  
51     switch (num%10) {  
52         case 1: printf("-one"); break;  
53         case 2: printf("-two"); break;  
54         case 3: printf("-three"); break;  
55         case 4: printf("-four"); break;  
56         case 5: printf("-five"); break;  
57         case 6: printf("-six"); break;  
58         case 7: printf("-seven"); break;  
59         case 8: printf("-eight"); break;  
60         case 9: printf("-nine"); break;  
61     }  
62     printf(".");  
63  
64     return 0;  
65 }
```

```
Input two-digit number: 0  
Input is Invalid input! Must be two-digit positive integer. Try again.  
PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming  
if ($?) { .\as2 }  
Input two-digit number: 25  
Input is twenty-five.  
PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming  
if ($?) { .\as2 }  
Input two-digit number: 51  
Input is fifty-one.  
PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming  
if ($?) { .\as2 }  
Input two-digit number: 42  
Input is forty-two.
```

Github link: <https://github.com/Pawmsday/CMSC21/tree/main/Lecture3/Assignments>