

```
as1.c x as2.c x
1  #include <stdio.h>
2
3  int main(){
4
5
6      int age;
7
8      printf("Enter your age: ");
9      scanf("%d",&age);
10
11     if (age >= 13 && age <= 19){
12         printf("You are a teenager.");
13     }
14
15
16     else{
17         printf("You are not a teenager.");
18     }
19
20 }
21
```

1.

```
#include <stdio.h>

int main(){

    int age;

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

    if (age >= 13 && age <= 19){
        printf("You are a teenager.");
    }

    else{
        printf("You are not a teenager.");
    }

}
```

■ "C:\[Justin]\School\UPV\1st Year\2nd Semester\CMSC 21\Lecture 3\Assignments\as1.exe"

```
Enter your age: 16
You are a teenager.
Process returned 0 (0x0)   execution time : 4.523 s
Press any key to continue.
```

2.

```
as1.c x as2.c x
1 #include <stdio.h>
2
3 int main() {
4     int tenth, ones;
5
6     printf("Enter a two-digit number: ");
7     scanf("%d%d", &tenth, &ones);
8
9     /*Used if statement if first digit user enters is 1. This is for numbers 10-19 which require special treatment.*/
10    if (tenth == 1) {
11
12        /*Used switch statement for 10-19 to then print into its respective word form.*/
13        switch(ones) {
14
15            case 0 :
16                printf("Number entered in words: Ten");
17                break;
18
19            case 1 :
20                printf("Number entered in words: Eleven");
21                break;
22
23            case 2 :
24                printf("Number entered in words: Twelve");
25                break;
26
27            case 3 :
28                printf("Number entered in words: Thirteen");
29                break;
30
31            case 4 :
32                printf("Number entered in words: Fourteen");
33                break;
34
35            case 5 :
36                printf("Number entered in words: Fifteen");
37                break;
38
39            case 6 :
40                printf("Number entered in words: Sixteen");
41                break;
42
43            case 7 :
44                printf("Number entered in words: Seventeen");
45                break;
46
47            case 8 :
48                printf("Number entered in words: Eighteen");
49                break;
50
51            case 9 :
52                printf("Number entered in words: Nineteen");
53                break;
54
55        }
56    }
57
58    /*Else statement for when the first digit is not 1. This means the number has a range from 20-99, which generally follows a structured word format*/
59    else {
60
61        /*First switch statement used based on the first digit of user input.*/
62        switch (tenth) {
63
64            case 2 :
65                printf("Number entered in words: Twenty");
66                break;
67
68            case 3 :
69                printf("Number entered in words: Thirty");
70                break;
71
72            case 4 :
73                printf("Number entered in words: Forty");
74                break;
75
76            case 5 :
77                printf("Number entered in words: Fifty");
78                break;
79
80            case 6 :
81                printf("Number entered in words: Sixty");
82                break;
83
84            case 7 :
85                printf("Number entered in words: Seventy");
86                break;
87
88            case 8 :
89                printf("Number entered in words: Eighty");
90                break;
91
92            case 9 :
93                printf("Number entered in words: Ninety");
94                break;
95
96        }
97    }
98
99    return 0;
100 }
```

```

100
101
102      /*Second switch statement used for second digit of user input*/
103      switch (ones){
104
105          case 0 :
106              printf(" ");
107              break;
108
109          case 1 :
110              printf("-one");
111              break;
112
113          case 2 :
114              printf("-two");
115              break;
116
117          case 3 :
118              printf("-three");
119              break;
120
121          case 4 :
122              printf("-four");
123              break;
124
125          case 5 :
126              printf("-five");
127              break;
128
129          case 6 :
130              printf("-six");
131              break;
132
133          case 7 :
134              printf("-seven");
135              break;
136
137          case 8 :
138              printf("-eight");
139              break;
140
141          case 9 :
142              printf("-nine");
143              break;
144      }
145  }
146  }
147  }
148  }
149  }
150  }
151  }
152  }

```

```

34      break;
35
36      case 5 :
37          printf("Number entered in words: Fifteen");
38          break;
39
40      case 6 :
41          printf("Number entered in words: Sixteen");
42          break;
43
44      case 7 :
45          printf("Number entered in words: Seventeen");
46          break;
47
48      case 8 :
49          printf("Number entered in words: Eighteen");
50          break;
51
52      case 9 :
53          printf("Number entered in words: Nineteen");
54          break;
55  }
56
57
58
59
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67

```

"C:\Justin\School\UPV\1st Year\2nd Semester\CMSC 21\Lecture 3\Assignments\as2.exe"
 Enter a two-digit number: 23
 Number entered in words: Twenty-three
 Process returned 0 (0x0) execution time : 1.478 s
 Press any key to continue.