

1.

```
if (age >= 13 && age <= 19);  
    teenager = true;  
  
else;  
    teenager = false;
```

2.

```
1  #include <stdio.h>  
2  
3  int main(){  
4      int digit1, digit2;  
5  
6      // Prompt  
7      printf ("Please Enter a 2-digit number: ");  
8      scanf ("%1d%1d", &digit1, &digit2);  
9  
10     // tens digit  
11     switch (digit1){  
12         // 11-19  
13         case 1:  
14             switch (digit2){  
15                 case 0:  
16                     printf ("ten");  
17                     return 0;  
18                 case 1:  
19                     printf ('eleven');  
20                     return 0;  
21                 case 2:  
22                     printf ("twelve");  
23                     return 0;  
24                 case 3:  
25                     printf ('thirteen');  
26                     return 0;  
27                 case 4:  
28                     printf ("fourteen");  
29                     return 0;  
30                 case 5:  
31                     printf ('fifteen');  
32                     return 0;  
33                 case 6:  
34                     printf ("sixteen");  
35                     return 0;  
36                 case 7:  
37                     printf ('seventeen');
```

```
38         return 0;
39     case 8:
40         printf ('eighteen');
41         return 0;
42     case 9:
43         printf ("nineteen");
44         return 0;
45     }
46
47     // 20+
48     case 2:
49         printf ("twenty");
50         break;
51     // 30+
52     case 3:
53         printf ("thirty");
54         break;
55     // 40+
56     case 4:
57         printf ("forty");
58         break;
59     // 50+
60     case 5:
61         printf ("fifty");
62         break;
63     // 60+
64     case 6:
65         printf ("sixty");
66         break;
67     // 70+
68     case 7:
69         printf ("seventy");
70         break;
71     // 80+
72     case 8:
73         printf ("eighty");
74         break;
```

```

74         // 80+
75         // 90+
76         case 9:
77             printf ("ninety");
78             break;
79     }
80 }
81
82 // ones digit
83 switch (digit2){
84     // 1
85     case 1:
86         printf ("-one");
87         return 0;
88     // 2
89     case 2:
90         printf ("-two");
91         return 0;
92     // 3
93     case 3:
94         printf ("-three");
95         return 0;
96     // 4
97     case 4:
98         printf ("-four");
99         return 0;
100    // 5
101    case 5:
102        printf ("-five");
103        return 0;
104    // 6
105    case 6:
106        printf ("-six");
107        return 0;
108    // 7
109    case 7:
110        printf ("-seven");
111        return 0;

```

```

112    // 8
113    case 8:
114        printf ("-eight");
115        return 0;
116    // 9
117    case 9:
118        printf ("-nine");
119        return 0;
120
121    }
122    return 0;
123 }

```