

Selection Statements

Lecture 3 Assignments

1. Code:

```
Assignments > C as1.c > main()
1  /**
2   * SALURIA, PRECIOUS KAIRA *
3   * pbsaluria@up.edu.ph *
4   */
5
6  /*  \  = ^•  ^•  =  //  */
7
8  #include<stdio.h>
9  #include<stdbool.h>
10
11 int main()
12 {
13     int age;
14     bool teenager;
15
16     printf("Enter the 2-digit number: ");
17     scanf("%d",&age);
18
19     // if statement to check if age is in range 13-19
20     if (age >= 13 && age <= 19) {teenager = true;}
21
22     // printing whether result is true or false
23     printf("Teenager: %s\n", teenager ? "True" : "False");
24
25     return 0;
26 }
```

Example Output:

If True:

```
Enter the 2-digit number: 15
Teenager: True
```

If False:

```
Enter the 2-digit number: 45
Teenager: False
```

2. Code:

Assignments > C as2.c > ...

```
1  /*****
2  *  SALURIA, PRECIOUS KAIRA *
3  *  pbsaluria@up.edu.ph    *
4  *****/
5
6
7  #include <stdio.h>
8
9  // PROGRAM TO PRINT A TWO-DIGIT NUMBER IN WORDS
10
11 int main(void)
12 {
13     int first, second;
14
15     // breaking the number into two digits and storing it in separate variables
16     printf("Enter a two-digit number: ");
17     scanf("%1d%1d", &first, &second);
18
19     // printing of results
20     printf("Number entered in words: ");
21
22     // to print the word for the first digit
23     switch (first)
24     {
25         // special cases for numbers from 10-19
26         case 1:
27             switch (second)
28             {
29                 case 0:
30                     printf("ten");
31                     return 0;
32                 case 1:
33                     printf("eleven");
34                     return 0;
35                 case 2:
36                     printf("twelve");
37                     return 0;
38                 case 3:
39                     printf("thirteen");
40                     return 0;
41                 case 4:
42                     printf("fourteen");
43                     return 0;
44                 case 5:
45                     printf("fifteen");
46                     return 0;
```

```
47         case 6:
48             printf("sixteen");
49             return 0;
50         case 7:
51             printf("seventeen");
52             return 0;
53         case 8:
54             printf("eightteen");
55             return 0;
56         case 9:
57             printf("nineteen");
58             return 0;
59     }
60
61     case 2:
62         printf("twenty");
63         break;
64     case 3:
65         printf("thirty");
66         break;
67     case 4:
68         printf("forty");
69         break;
70     case 5:
71         printf("fifty");
72         break;
73     case 6:
74         printf("sixty");
75         break;
76     case 7:
77         printf("seventy");
78         break;
79     case 8:
80         printf("eighty");
81         break;
82     case 9:
83         printf("ninety");
84         break;
85 }
86
87 // to print the word for the second digit
88 switch (second)
89 {
90     case 1:
91         printf("-one");
92         break;
```

```

93         case 2:
94             printf("-two");
95             break;
96         case 3:
97             printf("-three");
98             break;
99         case 4:
100            printf("-four");
101            break;
102        case 5:
103            printf("-five");
104            break;
105        case 6:
106            printf("-six");
107            break;
108        case 7:
109            printf("-seven");
110            break;
111        case 8:
112            printf("-eight");
113            break;
114        case 9:
115            printf("-nine");
116            break;
117    }
118
119    return 0;
120 }

```

Example Output:

```

Enter a two-digit number: 34
Number entered in words: thirty-four

```