

AGUILAR, CHARLES
LECTURE 3

1.

```
C as1.c > main(void)
1  #include <stdio.h>
2  #include <stdbool.h>
3
4  /*
5   Teenager Determiner
6
7   It is assumed that user will only input integers
8   I did not account for when user inputs garbage
9
10  I also opted to go a little extra to make it
11  more fun for the user
12
13  */
14
15  int main(void){
16
17      // initialization of variables
18      int age, navigation;
19      bool teenager;
20
21      // loops for ease of use
22      do{
23
24          printf("TEENAGER DETERMINER\nPlease enter your age: ");
25          scanf("%d", &age);
26
27          // determines if user is a teenager.
28          teenager = (age >= 13 && age <= 19);
29
30          printf("You're %d, %s", age, teenager ? "you're a teenager." :
31              "you're not a teenager.");
32
33          printf("\n\n{Any Key} Try Again\n{0} Exit\nWould you like to try again? ");
34          scanf("%d", &navigation);
35
36          // just a goodbye message
37          if(navigation == 0){
38              printf("\nThank you for using my program! Goodbye.");
39          }
40
41      } while (navigation != 0);
42
43
44      return 0;
45  }
```

```
PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture3> cd "c:\Hum
TEENAGER DETERMINER
Please enter your age: 23
You're 23, you're not a teenager.

{Any Key} Try Again
{0} Exit
Would you like to try again? 1
TEENAGER DETERMINER
Please enter your age: 14
You're 14, you're a teenager.

{Any Key} Try Again
{0} Exit
Would you like to try again? 0

Thank you for using my program! Goodbye.
PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture3> |
```

```
C as2c > ...
1  #include <stdio.h>
2
3  /*
4   NUMBER TO WORDS CONVERTER
5
6   It is assumed that user will only
7   input integers
8
9   Program will not loop because code
10  will look ugly if I did that ;-;
11
12  */
13
14  int main(void){
15
16      int number;
17
18      // will keep asking for input until 2-digit number is inputted
19      do{
20
21          printf("NUMBER TO WORDS CONVERTER\nPlease enter a 2-digit number: ");
22          scanf("%d", &number);
23
24      } while ((10 > number) || (number > 99));
25
26      printf("\nNumber: %d\nWord form: ", number);
27
28      // for the tens digit
29      switch (number / 10){
30          case 1:
31
32              // teens always seem to special treatment :>
33              switch (number % 10){
34
35                  case 0: printf("ten"); break;
36                  case 1: printf("eleven"); break;
37                  case 2: printf("twelve"); break;
38                  case 3: printf("thirteen"); break;
39                  case 4: printf("fourteen"); break;
40                  case 5: printf("fifteen"); break;
41                  case 6: printf("sixteen"); break;
42                  case 7: printf("seventeen"); break;
43                  case 8: printf("eighteen"); break;
44                  case 9: printf("nineteen"); break;
45              }
46              // no need to go through remaining code
47              return 0;
48
49          case 2: printf("twenty"); break;
50          case 3: printf("thirty"); break;
51          case 4: printf("forty"); break;
```

```
52     case 5: printf("fifty"); break;
53     case 6: printf("sixty"); break;
54     case 7: printf("seventy"); break;
55     case 8: printf("eighty"); break;
56     case 9: printf("ninety"); break;
57 }
58
59 // for the ones digit
60 switch (number % 10){
61
62     case 1: printf("-one"); break;
63     case 2: printf("-two"); break;
64     case 3: printf("-three"); break;
65     case 4: printf("-four"); break;
66     case 5: printf("-five"); break;
67     case 6: printf("-six"); break;
68     case 7: printf("-seven"); break;
69     case 8: printf("-eight"); break;
70     case 9: printf("-nine"); break;
71 }
72
73 printf("\n\nThanks for using the program! Goodbye");
74 return 0;
75 }
```

```
PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture3> cd
NUMBER TO WORDS CONVERTER
Please enter a 2-digit number: 09
NUMBER TO WORDS CONVERTER
Please enter a 2-digit number: 234
NUMBER TO WORDS CONVERTER
Please enter a 2-digit number: 34

Number: 34
Word form: thirty-four

Thanks for using the program! Goodbye
PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture3> |
```

Link: <https://github.com/Techntlinear/CMSC21/tree/main/Lecture3/Assignments>