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CMSC 21-2

1.

```c
#include <stdio.h>

int main(void){

    int age;

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

    if (age >= 13 && age <= 19){
        printf("Teenager = True\n");
    }
    else{
        printf("Teenager = False\n");
    }

    return 0;
}
```

```
C:\Users\Family\Desktop\as1.exe
Enter an age: 20
Teenager = False

Process returned 0 (0x0)   execution time : 1.741 s
Press any key to continue.
```

2.

```c
#include <stdio.h>

int main(void){

    int num, digit1, digit2;

    printf("Enter a two-digit number: ");
    scanf("%d", &num);

    printf("Number entered in words: ");

    digit1 = num / 10;
    digit2 = num % 10;

```

```
    //print word for the first digit
    switch (digit1){

        //special case for numbers between 11 and 19
        case 1:
            switch (digit2){
                case 0:
                    printf("ten");
                    return 0;
                case 1:
                    printf("eleven");
                    return 0;
                case 2:
                    printf("twelve");
                    return 0;
                case 3:
                    printf("thirteen");
                    return 0;
                case 4:
                    printf("fourteen");
                    return 0;
                case 5:
                    printf("fifteen");
                     return 0;
                 case 6:
                     printf("sixteen");
                     return 0;
                 case 7:
                     printf("seventeen");
                     return 0;
                 case 8:
                     printf("eighteen");
                     return 0;
                 case 9:
                     printf("nineteen");
                     return 0;
            }
         case 2:
             printf("twenty");
             break;
         case 3:
             printf("thirty");
             break;
        case 4:
            printf("forty");
            break;
        case 5:
            printf("fifty");
            break;
        case 6:
            printf("sixty");
            break;
        case 7:
            printf("seventy");
            break;
        case 8:
            printf("eighty");
            break;
        case 9:
            printf("ninety");
            break;
    }
```

```
77
78      //print word for the second digit
79      switch (digit2){
80          case 1:
81              printf("-one");
82              break;
83          case 2:
84              printf("-two");
85              break;
86          case 3:
87              printf("-three");
88              break;
89          case 4:
90              printf("-four");
91              break;
92          case 5:
93              printf("-five");
94              break;
95          case 6:
96              printf("-six");
97              break;
 98           case 7:
 99               printf("-seven");
100               break;
101           case 8:
102               printf("-eight");
103               break;
104           case 9:
105               printf("-nine");
106               break;
107     }
108
109     return 0;
110 }
```

```
C:\Users\Family\Desktop\as2.exe
Enter a two-digit number: 17
Number entered in words: seventeen
Process returned 0 (0x0)   execution time : 6.678 s
Press any key to continue.
```

Github link: https://github.com/pdramil/CMSC21/tree/main/Lecture%203/Assignments