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CMSC 21

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Assignment 3

1.)

```c
#include <stdio.h>
#include <stdbool.h>

int main ()
{
    int age; bool teenager;

    teenager = false;

    //prompt
    printf("Enter age here: ");
    scanf("%d", &age);

    //valid int values are between 13-19 inclusively
    if (13 <= age && age <= 19)
    {
        teenager = true;
    }

    //ff. conditional statements generate a more informative output
    if (teenager)
    {
        printf("A person who is %d is considered a teenager", age);
    }

    else
    {
        printf("A person who is %d is not considered a teengager", age);
    }

    return 0;
}
```

2.)

```c
#include <stdio.h>

int main()
{
    int digit1, digit2;

    //splits the number into two variables
    printf("Enter a two-digit number: ");
    scanf("%1d%1d", &digit1, &digit2);

    //for numbers 10-19
    if (digit1 == 1)
    {
        switch (digit2)
        {
            case 0: printf("ten"); break;
            case 1: printf("eleven"); break;
            case 2: printf("twelve"); break;
            case 3: printf("thirteen"); break;
            case 4: printf("fourteen"); break;
            case 5: printf("fifteen"); break;
            case 6: printf("sixteen"); break;
            case 7: printf("seventeen"); break;
            case 8: printf("eighteen"); break;
            case 9: printf("nineteen"); break;
            default: printf("*Invalid Input: Please Check the Digits You Have Entered*"); break;
        }
    }
```

```c
    //for numbers 20-99
    else if (digit1 != 1)
    {
        switch (digit1)
        {
            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;
            default: printf("*Invalid Input: Please Check the Digits You Have Entered*"); break;
        }

        switch (digit2)
        {
            case 0: printf(""); break;
            case 1: printf("-one"); break;
            case 2: printf("-two"); break;
            case 3: printf("-three"); break;
            case 4: printf("-four"); break;
            case 5: printf("-five"); break;
            case 6: printf("-six"); break;
            case 7: printf("-seven"); break;
            case 8: printf("-eight"); break;
            case 9: printf("-nine"); break;
            default: printf("*Invalid Input: Please Check the Digits You Have Entered*"); break;
        }
    }
}
```