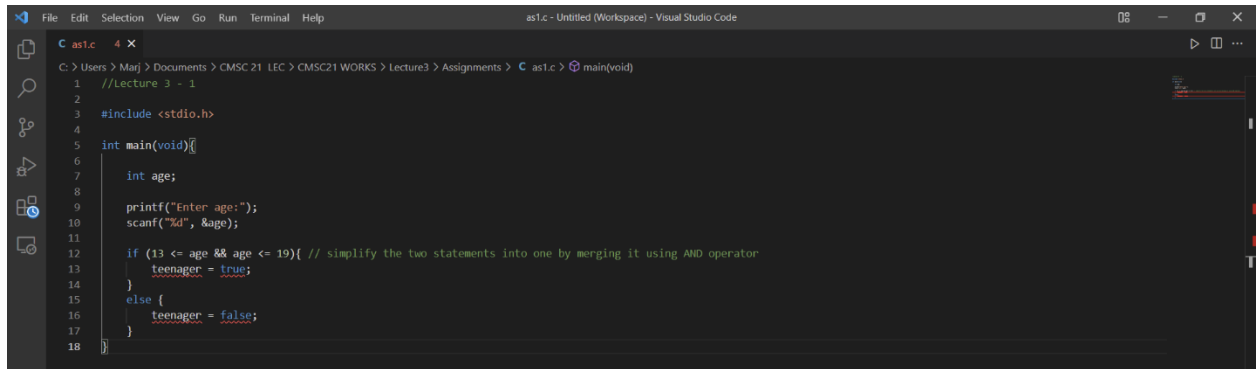
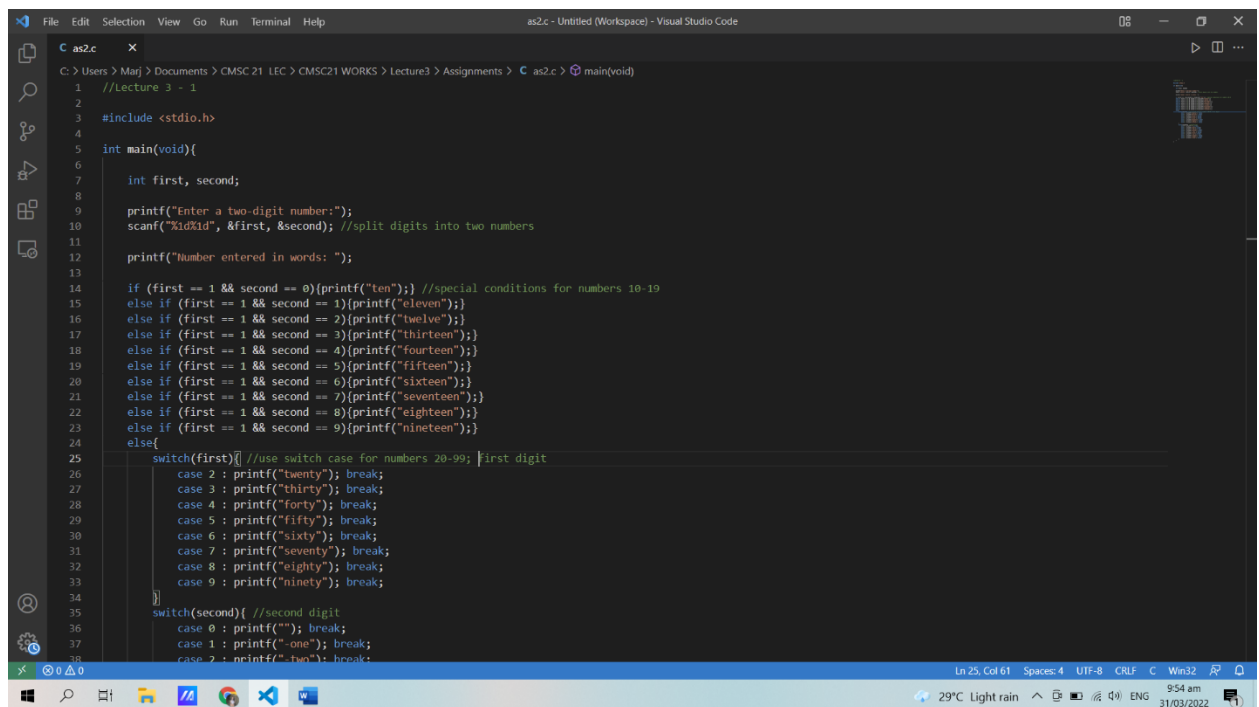


1.

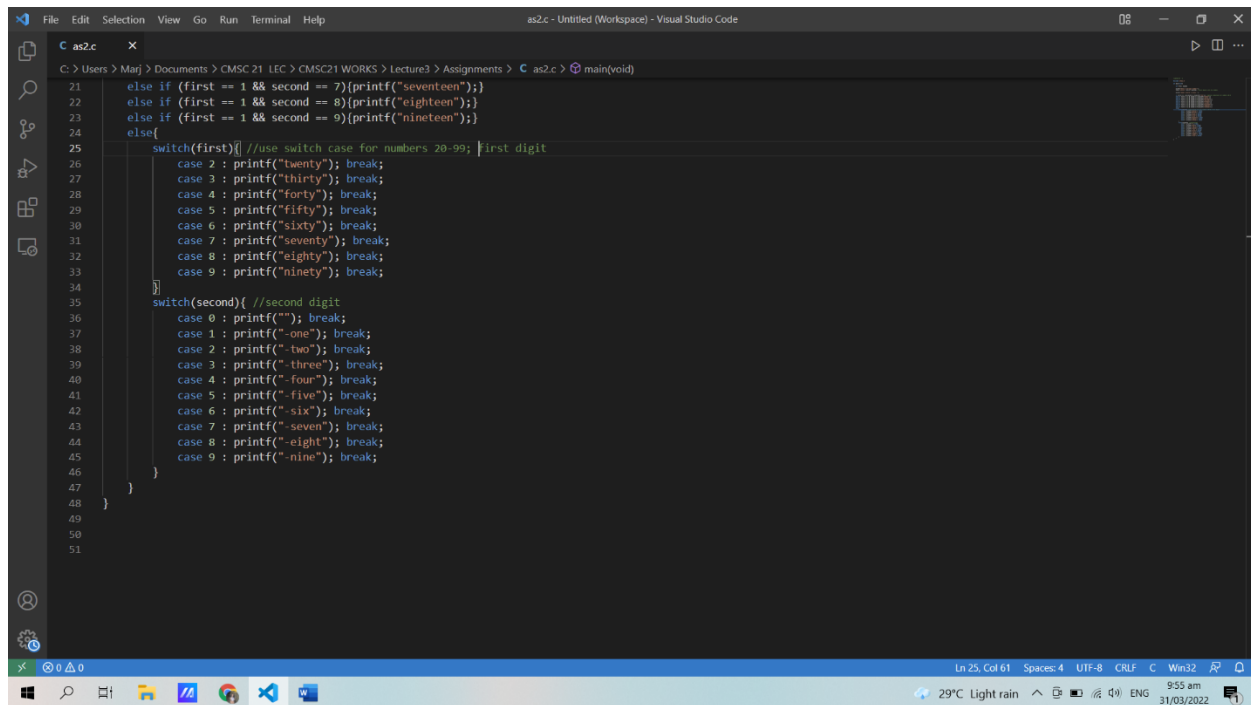


```
1 //Lecture 3 - 1
2
3 #include <stdio.h>
4
5 int main(void){
6     int age;
7
8     printf("Enter age:");
9     scanf("%d", &age);
10
11     if (13 <= age && age <= 19){ // simplify the two statements into one by merging it using AND operator
12         teenager = true;
13     }
14     else {
15         teenager = false;
16     }
17 }
18 }
```

2.



```
1 //Lecture 3 - 1
2
3 #include <stdio.h>
4
5 int main(void){
6     int first, second;
7
8     printf("Enter a two-digit number:");
9     scanf("%d%d", &first, &second); //split digits into two numbers
10
11     printf("Number entered in words: ");
12
13     if (first == 1 && second == 0){printf("ten");} //special conditions for numbers 10-19
14     else if (first == 1 && second == 1){printf("eleven");}
15     else if (first == 1 && second == 2){printf("twelve");}
16     else if (first == 1 && second == 3){printf("thirteen");}
17     else if (first == 1 && second == 4){printf("fourteen");}
18     else if (first == 1 && second == 5){printf("fifteen");}
19     else if (first == 1 && second == 6){printf("sixteen");}
20     else if (first == 1 && second == 7){printf("seventeen");}
21     else if (first == 1 && second == 8){printf("eighteen");}
22     else if (first == 1 && second == 9){printf("nineteen");}
23     else{
24         switch(first){ //use switch case for numbers 20-99; first digit
25             case 2 : printf("twenty"); break;
26             case 3 : printf("thirty"); break;
27             case 4 : printf("forty"); break;
28             case 5 : printf("fifty"); break;
29             case 6 : printf("sixty"); break;
30             case 7 : printf("seventy"); break;
31             case 8 : printf("eighty"); break;
32             case 9 : printf("ninety"); break;
33         }
34         switch(second){ //second digit
35             case 0 : printf(""); break;
36             case 1 : printf("-one"); break;
37             case 2 : printf("-two"); break;
38         }
39     }
40 }
```



```
21 else if (first == 1 && second == 7){printf("seventeen");}
22 else if (first == 1 && second == 8){printf("eighteen");}
23 else if (first == 1 && second == 9){printf("nineteen");}
24 else{
25     switch(first){ //use switch case for numbers 20-99; first digit
26     case 2 : printf("twenty"); break;
27     case 3 : printf("thirty"); break;
28     case 4 : printf("forty"); break;
29     case 5 : printf("fifty"); break;
30     case 6 : printf("sixty"); break;
31     case 7 : printf("seventy"); break;
32     case 8 : printf("eighty"); break;
33     case 9 : printf("ninety"); break;
34     }
35     switch(second){ //second digit
36     case 0 : printf(""); break;
37     case 1 : printf("-one"); break;
38     case 2 : printf("-two"); break;
39     case 3 : printf("-three"); break;
40     case 4 : printf("-four"); break;
41     case 5 : printf("-five"); break;
42     case 6 : printf("-six"); break;
43     case 7 : printf("-seven"); break;
44     case 8 : printf("-eight"); break;
45     case 9 : printf("-nine"); break;
46     }
47 }
48 }
49 }
50 }
51 }
```

Link: <https://github.com/marj12/CMSC21/tree/main/Lecture3/Assignments>