Selection Statements
Lecture 3 Assignments
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1. Simplified code:

```
if (age >= 13 && age <= 19) {
        teenager = true;
}
```

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

int main (void){

    int age;
    bool teenager = false;

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

    if (age >= 13 && age <=19){

        teenager = true;

    }

    printf ("Teenager: %s", teenager ? "True" : "False");

    return 0;

}
```

Output:

- ```
  Enter age: 12
  Teenager: False
  ```
- ```
  Enter age: 16
  Teenager: True
  ```

2.

```c
#include <stdio.h>

int main(void){
    int number, first, second;

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

    first = number/10;      //gets the first digit of the number
    second = number%10;     //gets the second digit of the number

    printf ("Number entered in words: ");

    switch (first){

        //for numbers between 11-19
        case 1:
            switch (second){
                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;
            }
            return 0;

        //for the first digit
        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;
    }


    //for the second digit
    switch(second){
        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;
    }
}
```

Output:

```
Enter a two-digit number: 56
Number entered in words: Fifty-six
```