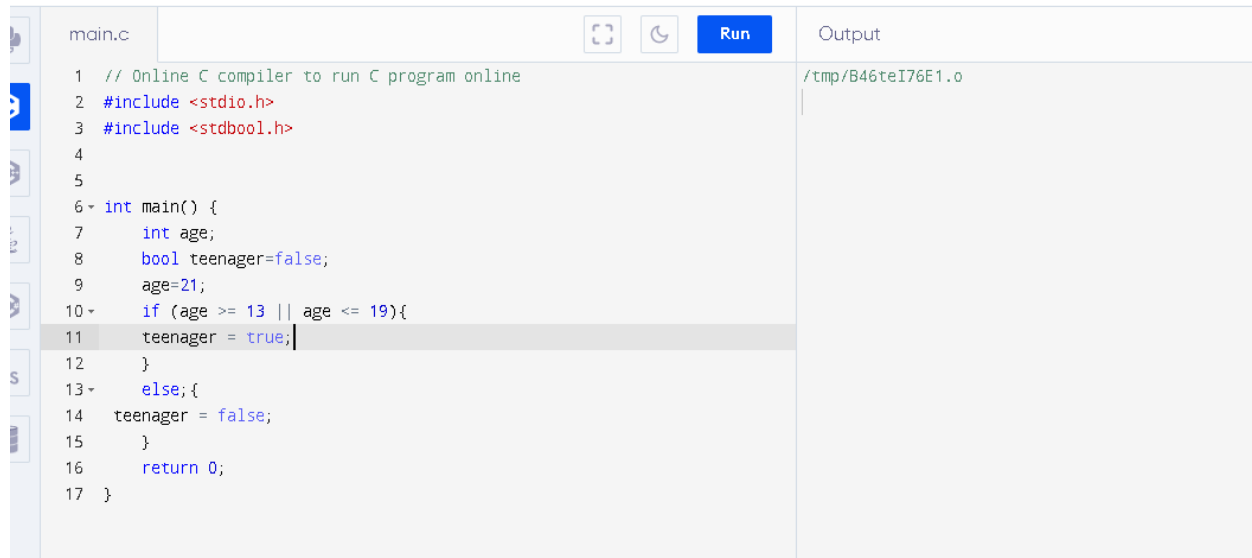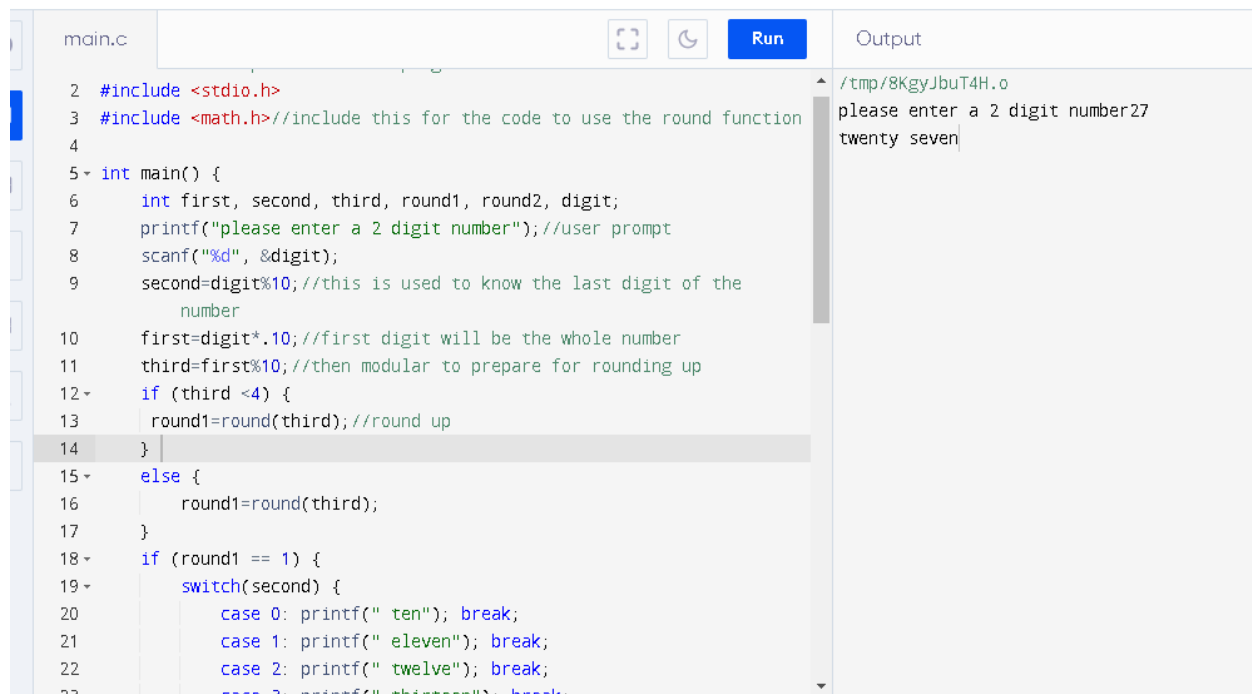Josaiah L. Borres

1. The following if statement is unnecessarily complicated. Simplify it as much as possible. (Hint: The entire statement can be replaced by a single assignment.)

```c
// Online C compiler to run C program online
#include <stdio.h>
#include <stdbool.h>


int main() {
    int age;
    bool teenager=false;
    age=21;
    if (age >= 13 || age <= 19){
    teenager = true;
    }
    else; {
  teenager = false;
    }
    return 0;
}
```

Output
/tmp/B46teI76E1.o

2. Write a C program that does the following: Enter a two-digit number: 25 Number entered in words: twenty-five

```c
#include <stdio.h>
#include <math.h>//include this for the code to use the round function

int main() {
    int first, second, third, round1, round2, digit;
    printf("please enter a 2 digit number");//user prompt
    scanf("%d", &digit);
    second=digit%10;//this is used to know the last digit of the
        number
    first=digit*.10;//first digit will be the whole number
    third=first%10;//then modular to prepare for rounding up
    if (third <4) {
     round1=round(third);//round up
    }
    else {
        round1=round(third);
    }
    if (round1 == 1) {
        switch(second) {
            case 0: printf(" ten"); break;
            case 1: printf(" eleven"); break;
            case 2: printf(" twelve"); break;
            case 3: printf(" thirteen"); break;
```

Output
/tmp/8KgyJbuT4H.o
please enter a 2 digit number27
twenty seven