Ron Paolo Molejona
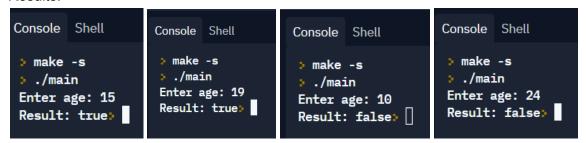
1.

as1.c ×

```c
1  #include <stdio.h>
2  #include <stdbool.h>
3
4  int main(void) {
5
6      int age;
7      bool teenager = false;
8
9      printf("Enter age: ");
10     scanf("%d", &age);
11
12     if (age >= 13 && age <= 19)
13     {
14        teenager = true;
15     }
16
17     printf("Result: %s", teenager ? "true" : "false");
18
19
20     return 0;
21  }
```

Results:

```
Console  Shell

> make -s
> ./main
Enter age: 15
Result: true>
```

```
Console  Shell

> make -s
> ./main
Enter age: 19
Result: true>
```

```
Console  Shell

> make -s
> ./main
Enter age: 10
Result: false>
```

```
Console  Shell

> make -s
> ./main
Enter age: 24
Result: false>
```

2.
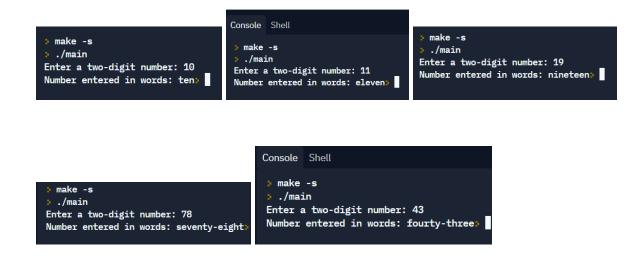
```c
#include <stdio.h>

int main(void)
{

  int num, ones, tens;

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

  printf("Number entered in words: ");

  if (num == 11)
  {
    printf("eleven");
  }
  else if ( num == 12)
  {
    printf("twelve");
  }
  else
  {
    ones = num % 10;
    tens = num - ones;

    if (tens == 10)
    {
      if (ones == 3)
      {
        printf("thirteen");
      }
      else if (ones == 4)
      {
        printf("fourteen");
      }
      else if (ones == 5)
      {
        printf("fifteen");
      }
      else if (ones == 6)
      {
        printf("sixteen");
      }
      else if (ones == 7)
      {
        printf("seventeen");
      }
      else if (ones == 8)
      {
        printf("eighteen");
      }
      else if (ones == 9)
        printf("nineteen");
      else
        printf("ten");
    }
```

```c
        else if (tens == 20)
        {
            printf("twenty");
        }
        else if (tens == 30)
        {
            printf("thirty");
        }
        else if (tens == 40)
        {
            printf("fourty");
        }
        else if (tens == 50)
        {
            printf("fifty");
        }
        else if (tens == 60)
        {
            printf("sixty");
        }
        else if (tens == 70)
        {
            printf("seventy");
        }
        else if (tens == 80)
        {
            printf("eighty");
        }
        else if (tens == 90)
        {
            printf("ninety");
        }
```

```c
89
90      if (tens >= 20)
91      {
92        if (ones == 1)
93        {
94          printf("-one");
95        }
96        else if (ones == 2)
97        {
98          printf("-two");
99        }
100       else if (ones == 3)
101       {
102         printf("-three");
103       }
104       else if (ones == 4)
105       {
106         printf("-four");
107       }
108       else if (ones == 5)
109       {
110         printf("-five");
111       }
112       else if (ones == 6)
113       {
114         printf("-six");
115       }
116       else if (ones == 7)
117       {
118         printf("-seven");
119       }
120       else if (ones == 8)
121       {
122         printf("-eight");
123       }
124       else if (ones == 9)
125       {
126         printf("-nine");
127       }
128     }
129   }
130
131   return 0;
132 }
```

Results:

https://github.com/Ron-Paolo-Molejona/CMSC21/tree/main/Lecture3/Assignments