```
File - D:\cpl\2024-cpl-coding\0-intro\guess.c
 1 //
 2 // Created by hfwei on 2024/9/19.
 3 //
 4
 5 #include <stdio.h>
 6 #include <stdlib.h>
 7 #include <time.h>
 8
 9 int main(void) {
10
     int high = 100;
11
     int chance = 7;
12
13
     /*
14
     * print the rule of the game
15
      */
16
     printf("The computer will generate a random number
   between 1 and %d\n"
17
            "You have %d chances.\n",
18
             high, chance);
19
     /*
20
     * generate a random number
21
      */
22
     srand(time(NULL)); // use current time as seed for
   random generator
23
     // 0 .. RAND_MAX
24
     // 1 .. high
     int secret = rand() % high + 1;
25
26
     printf("secret = %d\n", secret);
27
28
     while (chance > 0) {
29
30
       /*
31
        * let the player enter his/her guess number
32
33
       printf("Enter your guess.\n");
34
35
       /*
36
        * store the guess number,
37
        * compare it with the secret,
38
        * and inform the player of the result
39
        */
40
       int quess;
       scanf("%d", &guess);
41
42
```

```
File - D:\cpl\2024-cpl-coding\0-intro\guess.c
```

```
if (guess == secret) {
43
44
         printf("You Win!\n");
45
         break;
       } else if (guess > secret) {
46
         printf("guess > secret\n");
47
       } else {
48
         printf("guess < secret\n");</pre>
49
50
       }
51
52
       /*
53
       * loop: repeat until the player wins or loses
54
        */
55
       chance--;
56
       // chance = chance - 1;
57
     }
58
59
     return 0;
60 }
```

```
File - D:\cpl\2024-cpl-coding\0-intro\hello.c
 1 //
 2 // Created by hfwei on 2024/9/19.
 3 //
 4
 5 // single-line comment
 6 // Created by hfwei on 2023/9/15.
 7 //
 8
 9 /*
10 * this is a multi-line comment
11 * this is a multi-line comment
12 */
13
14 // directive
15 // .h: header file
16 // stdio: standard input/output
17 #include <stdio.h>
18
19 /*
20 * main function
21 * y < -f(x)
22 * int: integer (return)
23 */
24 int main(void) {
25 // "hello world\n": string
26 // printf: print + f (format)
27 printf("Hello World\n");
28
29
     // return statement (return to operating system)
     // 0: exit code
30
31
     return 0;
32 }
```

- 1 add_executable(hello hello.c)
- 2 add_executable(guess guess.c)