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Chapter 5

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- (1) Checking if a number is even done
- (2) Comparison operators done
- (3) Calculations done



Write a program that first asks the user whether they drink coffee or tea and then how many cups a day. Finally, the program prints a statement in accordance with the following instructions: Coffee 0 to 2 cups: "You don't drink a lot of coffee, do you?", coffee 3-20 cups: "You drink a lot of coffee!", Tea 0-2 cups: "You do not drink a lot of tea.", tea 3-20 cups: "You drink a lot of tea!", Otherwise "An error occurred in the program!" The number of cups shall be processed as an integer variable and the drink as a character variable (c/t). You do not need to account for upper case letters.

Hint:

Spend enough time on program design before you start typing your program. You can get help for the exercise in the learning material for Chapter 4.

Example output:

Do you drink coffee or tea (c/t)?s
How many cups do you drink daily:55
An error occurred in the program!

The verification of program output does not account for whitespace characters like "n", "r" and " "

program.c

```
1 #include <stdio.h>
2
3 int main()
4 {
5     char drink;
6     int cups;
7
8     printf("Do you drink coffee or tea (c/t)?");
9     drink = getchar();
10
11     printf("How many cups do you drink daily:");
12     scanf("%d", &cups);
13
14     if (cups < 0 || cups > 20)
15     {printf("An error occurred in the program!");}
16     else if (drink == 'c' && cups < 3)
17     {printf("You don't drink a lot of coffee, do you?");}
18     else if (drink == 'c' && cups > 2)
19     {printf("You drink a lot of coffee!");}
20     else if (drink == 't' && cups < 3)
21     {printf("You do not drink a lot of tea.");}
22     else if (drink == 't' && cups > 2)
23     {printf("You drink a lot of tea!");}
24     else
25     {printf("An error occurred in the program!");}
26
27     return 0;
28 }
```

Position: Ln 1 Ch 1

Full screen (Esc to exit)

Reset

Save

Run