Chapters
1 2 3 4
5 6 7 8
9 10 11 12
13

Chapter 8
Theory (5)
Programming exercises (2/2)
Quizzes (7/7)
Open exercises

Course
Table of contents
Extra materials
Bulletin board
My corner

Communication
Forum
Conference

Tutoring
Ask a tutor

Working hours calculator

Feedback | Ask a tutor
Please use this option only if you find any issues or mistakes in the content. If you have any queries or questions regarding the subject matter, then please use "Ask a tutor"

You have completed this exercise

Page: 1/2

- (1) Working hours calculator done
- (2) Handling matrices done

Send

Hide

Write a program that calculates the number of hours worked within a specific period and prints the total number of hours, the average length of a day and an itemisation of the hours entered. First, the program must ask how many days of working hours shall be entered (max 30 days). After this, the program asks for the daily working hours. The program output shall have one decimal place of precision.

Hint:
It is easiest to implement the program using an array with 30 elements.

Example output:

```
The program calculates the total hours worked during
a specific period and the average length of a day.

How many days:3
Enter the working hours for day 1:5.5
Enter the working hours for day 2:6.6
Enter the working hours for day 3:7.7

Total hours worked: 19.8
Average length of day: 6.6
Hours entered: 5.5 6.6 7.7
```

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

- program.c

```c
#include<stdio.h>

int main()
{
    float hours[30];
    float total = 0;
    int day;
    int i;
    float avg;
    int j;

    printf("The program calculates the total hours worked during\na specific period and the average length of a day.\n");
    printf("How many days: ");
    scanf("%d",&day);

    for(i=0; i<day; i++){
     printf("Enter the working hours for day %d:",i+1);
     scanf("%f",&hours[i]);
     total += hours[i];
    }

    avg = total/day;

    printf("Total hours worked: %.1f\n", total);
    printf("Average length of day: %.1f\n", avg);
    printf("Hours entered:");

    for( j = 0; j < day; j++){
         printf("%.1f\t", hours[j]);
      }
```

Position: Ln 1 Ch 1 Full screen (Esc to exit)

Reset Save Run

Open Theory Shortcut