



ATILIM UNIVERSITY

DEPARTMENT OF COMPUTER ENGINEERING

CMPE 113 Computer Programming I

2020 - 2021 Spring

ASSIGNMENT-1

Start Date and Time: 12 April 2021, 09:00

Due Date and Time: 23 April 2021, 23:59

WARNINGS

- You should submit your homework on Moodle **before the due date**.
- **Late submissions will NOT be graded.**
- Name your homework file as in the format **lastname_firstname_assignment-1.c**.
- Do NOT use Turkish characters when you give name to your C file.
- Your homework must be a **C file** not CPP.
- **Do NOT upload .exe file. Otherwise you will get ZERO.**
- **Group study is not allowed. Everyone needs to do his/her homework as an individual.**
- Your codes will be checked by special software (JPLAG) for code similarity. If the **code similarity** between any two or more submissions **is higher than %90**, we will also examine and compare these codes by eye. If we convince that the similarity between two codes is not merely a coincidence, **all involved HWs will get 0 as the grade.**
- **Do not share your solution with others.**
- Moreover, if we believe that the students cheat on these exams, we will initiate a disciplinary act!

GRADING POLICY: If your code **can not run at all or as expected**, your code will be evaluated over **80 points** instead of 100.



Question

Write a C program to calculate the employee's salary according to working hours and extra payment method. Firstly, ask employees name and surname, then calculate base salary of the employee by asking working hours for a week. Calculate base salary for one month. Different payments according to working hours are given below:

| Working hour for a week: | Payment for one hour: |
|--------------------------|-----------------------|
| More than 45 | 100\$ |
| Between 20-45 | 75\$ |
| Less than 20 | 50\$ |

After calculating the salary, you need to ask user to select extra payment method. If user enters k/K you need to ask how many km the user comes to work; according to this value, you need to increase calculated salary based on given percentages. If user enters C/c you need to ask how many children, the user have; according to this value you need to increase calculated salary based on given percentages. If user enters any other character, then you need to warn the user about not having extra payment.

| KM options (K/k) | Extra payment percentages |
|------------------|---------------------------|
| More than 50 km | %12 |
| Between 25-50 | %8 |
| Less than 25 | %4 |

| Number of children (C/c) | Extra payment percentages |
|--------------------------|---------------------------|
| More than 4 children | %15 |
| Between 2-4 children | %9 |
| Just 1 | %5 |

Sample runs are given below.

Note: Your code should include both if and switch statements. In some decision statements use if, in some decision statements use switch.

SAMPLE RUN-1

```
Enter you name and surname:Mehtap Tufan
-----
Enter the number of hours you are working for a week: 40
Select extra payment method. Enter K/k for km, C/c for amount of children:K
Enter the km that you came to work: 60

Dear Mehtap Tufan, your salary for this month is: $13440.00
Press any key to continue . . .
```



SAMPLE RUN-2

```
Enter you name and surname:Mehtap Tufan
-----
Enter the number of hours you are working for a week: 60
Select extra payment method. Enter K/k for km, C/c for amount of chidren:c
Enter the amount of children you have: 3

Dear Mehtap Tufan, your salary for this month is: $26160.00
Press any key to continue . . .
```