

Algorithm Week2 Homework2

Que 2=>

```
// hours: how many hours an employee works for that day
int salaryPerEmployeePerDay(int hours) //40 bytes
{
    int salary;          //4 bytes + 40 = total 44 bytes

    // First 8 hours, $7/hour
    // More than 8 hours, $10/hour
    if (hours <= 8)
        salary = hours * 7;
    else
        salary= 8*7 + (hours -8) * 10;
    return salary; //44 bytes
}

// days: how many days the employee works for that month
int salaryPerEmployeePerMonth(int days) //4 + 24 previous bytes= 28 bytes
{
    int i, hours, salary=0;          //4+4+4+28 = total 40 bytes

    // Using a loop to ask how many hours per month, and then
    // call salaryPerEmployeePerDay(hours) //40 bytes

    for (i=1; i<=days; i++)
    {
        printf("Enter the number of hours the employee works for that day");
        scanf("%d", &hours);
        salary += salaryPerEmployeePerDay(hours); //40 bytes
    }

    return(salary); //32 bytes
}

// employees: how many employees in the company
int salaryPerCompanyPerMonth(int employees) //4 + 8 previous bytes= 12 bytes
{
    int i, days, salary=0;          //4+4++4+12 = total 24 bytes

    // Using a loop to ask how many days per month, and then
    // call salaryPerEmployeePerMonth(days) // 24 bytes

    for (i=1; i<=employees; i++)
    {
        printf("Enter the number of days the employee works for that
month");
        scanf("%d", &days);
        salary += salaryPerEmployeePerMonth(days);
    }

    return(salary); //24 bytes
}
```

```

}

// Calculate the total monthly salary of a company
void main()
{
    int employees, salary;  //4+4 = total 8 bytes

    // Read the number of employees
    printf("Enter the number of employee for the company");
    scanf("%d", &employees);

    // Call salaryPerCompanyPerMonth(int employees)
    salary = salaryPerCompanyPerMonth(employees); //8 bytes

    // Print the total salary for the company
    printf("Total salary for the company %d\n", salary);
}

// 0 bytes

```

Que 1=>

Hello professor,

I see below output in my terminal. I am not sure it is showing the right answer. I installed cygwin and gcc compiler.



```

gayat@LAPTOP-DFH7PTFB /cygdrive/c/Users/gayat/Documents/cprograms
$ ls -ail a.exe
6755399441445145 -rwxr-xr-x+ 1 gayat gayat 161561 Sep 28 21:50 a.exe

gayat@LAPTOP-DFH7PTFB /cygdrive/c/Users/gayat/Documents/cprograms
$

```

And below is the file size shown in the window explorer

 a.c	9/28/2021 9:37 PM	Source	2 KB
 a	9/28/2021 10:30 PM	Application	158 KB