

C - Assignment 02 (100 pts)

Notes

Do the following for each exercise

- Create a main() function
- Use good variable names and coding style
- Include some simple comments

Exercise 01 (20 pts)

Formulate a pseudocode algorithm for each of the following:

- Obtain three numbers from the keyboard, compute their product and display the result.
- Obtain two numbers from the keyboard, and determine and display which (if either) is the smaller of the two numbers.
- Obtain 5 positive numbers from the keyboard, and determine and display their average.

Include the pseudocode in the file as comments.

Exercise 02 (10 pts)

Implement Exercise 01-b in C.

Exercise 03 (20 pts)

Develop a program that will determine the gross pay for an employee. The company pays “straight time” for the first 40 hours worked by each employee and pays “time-and-a-half” for all hours worked in excess of 40 hours. Your program should input this information for an employee and should determine and display the employee's gross pay. Here is a sample input/output:

```
Enter # of hours worked: 41
Enter hourly rate of the worker ($00.00): 10.00
Salary is $415.00
```

Exercise 04 (25 pts)

Write a program that asks a user to input a grade then outputs the relevant grade letter. Use the following conversion table:

Grade letter	Grade greater than or equal to
A	90

B	80
C	70
D	60
F otherwise	

Exercise 05 (25 pts)

Let the user input an integer. Determine the remainder of the division of that integer by 7. Use a **switch** statement to display the following output depending on the value of the remainder:

If the remainder is equal to	Display
0	"Nice"
1, 3	"Good"
2	"Cool"
4, 5, 6	"Well"