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BSIT-S-T-1A-T

Unit 2

(30 pts) Create a program that will input 3 quizzes, 3 unit tests, 4 machine problems, and a term exam. The total number of items per exam is fixed at 100. For each examination, the lowest grade that the instructor could give is 20 pts.

Condition:

If the student misses three exams he will be given a grade of "INC" and a remark of "incomplete"

If the student misses 4 or more exams he will be given a grade of "DRP" and a remark of "dropped"

Otherwise, compute his grade. If his grade is less than 50 then the remark is "failed" otherwise "passed"

Computation

Total exam score = (score/100) * percent * 100

Q - 20%

U - 25%

M - 35%

T - 20%

Weighted Grade is the summation of all weighted grades of the examination.

For the Final Grade follow the following condition

Weighted Grade	Final Grade
98-100	1.0
91 -97	1.25
85-90	1.50
79-84	1.75
73-78	2.00
67-72	2.25
61-66	2.50
55-60	2.75
50-54	3.00
Below 60	5.00

Count the number of students who got passed, the number of students who got failed, the number of students who got dropped, and the number of students who got incomplete.

Display on the screen all inputted quizzes, unit tests, machine problem and term tests, each examination's weighted grade, weighted grade, and final grade. You are warned to input data as long as you want.

CODE:

```
printf(*\n[ENTER Tert Term score]\n");

printf(Test Term Score");

scanf(*%d", &term_test);

/* PROCES */

if (quiz1=0) count_missing*;
if (quis2=0) count_missing*;
if (quis2=0) count_missing*;
if (unit1=0) count_missing*;
if (unit1=0) count_missing*;
if (unit2=0) count_missing*;
if (mpi=0) count_missing*;
if (term_test=0) count_missing*;
if (term_test=
```

OUTPUT:

```
[ENTER QUIZ SCORES]
                                                                                                                                                   [ENTER QUIZ SCORES]
 Quiz 1: 32
Quiz 2: 34
Quiz 3: 35
                                                                                                                                                   Quiz 1: 69
Quiz 2: 69
Quiz 3: 69
[UNIT TESTS SCORES]
Unit Test 1: 32
Unit Test 2: 31
Unit Test 3: 37
                                                                                                                                                  [UNIT TESTS SCORES]
Unit Test 1: 69
Unit Test 2: 69
Unit Test 3: 69
  [ENTER MACHINE PROBLEMS SCORES]
                                                                                                                                                  [ENTER MACHIME PROBLEMS SCORES]
Machime Problem 1: 09
Machime Problem 2: 09
Machime Problem 3: 09
Machime Problem 4: 09
 Machine Problem 1: 37
Machine Problem 2: 30
Machine Problem 3: 32
Machine Problem 4: 33
[ENTER Tert Term score]
Test Term Score: 33
                                                                                                                                                  [ENTER Tert Term score]
Test Term Score: 69
[SCORES]
Quiz 1: 32
Quiz 2: 34
Quiz 3: 35
Unit Test 1: 32
Unit Test 3: 37
Machine Problem 1: 37
Machine Problem 2: 30
Machine Problem 4: 33
Machine Problem 4: 33
Machine Problem 4: 33
                                                                                                                                                   [SCORES]
                                                                                                                                                 [SCORES]
Quiz 1: 09
Quiz 2: 09
Quiz 3: 09
Quiz 3: 09
Unit Test 1: 09
Unit Test 2: 09
Unit Test 2: 09
Unit Test 3: 09
Machine Problem 1: 09
Machine Problem 2: 09
Machine Problem 3: 09
Machine Problem 4: 09
Term Test: 09
[Grades]
Quiz Weighted Grade: 33.67
Unit Test Weighted Grade: 33.33
Machine Problem Weighted Grade: 33.00
Term Test Weighted Grade: 33.00
                                                                                                                                                  [Grades]
Quiz Weighted Grade: 09.00
Unit Test Weighted Grade: 09.00
Machine Problem Weighted Grade: 09.00
Term Test Weighted Grade: 09.00
[Final Grade]
Weighted Grade: 33
Final Grade: 5.00
Remarks: Failed
Grade: 0.00
                                                                                                                                                  [Final Grade]
Weighted Grade: 09
Final Grade: 2.25
Remarks: Passed
Grade: 0.00
 Do you want to continue? (y/n)
                                                                                                                                                   Do you want to continue? (y/n)
```

(15pts) Write a program that allows the user to compute the weekly salary of an employee based on the given condition.

Position	Description	Wage Rate
M	Messenger	250
E	Encoder	300
Т	Technician	350
P	Programmer	500
S	System Analyst	600

Regular working hours for one week is 40 hours. Beyond 40 hours is paid 1.5 times the regular wage rate. Input the name, the number of hours worked, and the position of an employee and compute the weekly employee salary. Display the name, the number of hours worked, the actual employee description, weekly employee salary, and overtime if any. The user is warned to input data as long as he wants.

Basic Salary = Number hours * wage

CODE:

OUTPUT:

```
Enter your name: Jack
Enter hours worked: 30
Position Code
M: Messenger
E: Encoder
T: Technician
P: Programmer
S: System Analyst
Enter position code: M

[OUTPUT]
Name: Jack
Hours work: 30
Wage rate: 250
Basic Salary: 7500

Overtime: 0
Overtime Pay: 0

Do you want to continue? (y/n)
```

```
Do you want to continue? (y/n)
Enter your name: James
Enter hours worked: 69
Position Code
M:
       Messenger
E:
       Encoder
T:
       Technician
P:
        Programmer
S:
        System Analyst
Enter position code: P
[OUTPUT]
Name: James
Hours work: 69
Wage rate: 750
Basic Salary: 51750
Overtime: 29
Overtime Pay: 17250
Do you want to continue? (y/n)
```

(15 pts.)The tolerance of critical components in a system is determined according to the following schedule:

Specifications Status	Tolerance
Space exploration	Less than 0.1%
Military grade	Greater than or equal to 0.1% and less than 1%
Commercial grade	Greater than or equal to 1% and less than 10%
Toy grade	Greater than or equal to 10%

Using this information to create an application program that accepts a component's tolerance reading and determine the specification that should assigned to it. Accumulate tolerance of each specification status. Display specification status, tolerance and the accumulated tolerance of each specification status. Note: the user is warned to input data as long as he wants.

CODE:

```
#include <xtdio.h>
#include <mindows.h>
#include <mindows.h>
#include <conto.h>

#include <include <includ
```

OUTPUT:

```
Enter the tolerance (in %): 0.1

[OUTPUT]

Tolerance Perccent: 0.10%

Tolerance Status: Military grade

Accumulated Values:
Less than 0.1%: 0.00%

Greater than or equal to 0.1% and less than 1%: 0.10%

Greater than or equal to 1% and less than 10%: 0.00%

Greater than or equal to 10%: 0.00%

Do you want to continue? (y/n)
```

```
Enter the tolerance (in %): 0.08

[OUTPUT]
Tolerance Perccent: 0.08%
Tolerance Status: Space exploration

Accumulated Values:
Less than 0.1%: 0.08%
Greater than or equal to 0.1% and less than 1%: 0.10%
Greater than or equal to 1% and less than 10%: 0.00%
Greater than or equal to 10%: 0.00%

Do you want to continue? (y/n)
```