

Program 1 cop2250pgm1d.java

COP 2250 Java Programming

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- Program must be named: yourLastNameFirstLetterOfYourFirstNamepgm1.java
If your name is George Washington the program should be named:
WashingtonGpgm1.java
- Turn in the signed source code on paper, and email me the source code.
- Make sure the program is properly documented and aligned uniformly, looking professionally, I will take points off **if** it not.
- Include the following header in every program:

```

/*****
Author      : Your Name
Course      : COP 2250 Date and Time of class
Professor   : Michael Robinson
Program #   : Program Purpose/Description
              {A brief description of the program }
Due Date    : MM/DD/YYYY

```

Certification:

I hereby certify that this work is my own and none of it is the work of any other person.

.....{ your signature }.....

```

*****/

```

Purpose of **this** program:

- Create first project, first **class**, and first java program
- Use multiple variables of Primitive Data Types and the String Class by declaring them, and assigning values to them.
- Use methods, pass parameters. (MAKE SURE THE METHODS NAMES DESCRIBE WHAT THEY DO example: addNumbers)
- Do calculations and print results.
- Use print, println, and printf.
- Use \n and \t
- Use remarks to document your program.

How:

- 1 - Worth 3 points
 - Create and call a method called numericalComputations(), without passing any parameters
 - In the numericalComputations() method, assign the value 100 to the **int** maximunNumber
 - Print EACH result **for** EACH of the following computations:
This means: compute maximunNumber with 1, then maximunNumber with 2, maximunNumber with 3 ...

```

e.g.  100 + 1 = 101
       100 + 2 = 102
       100 + 3 = 103
       ..
       100 + 10 = 110

```

```

maximunNumber + 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 using printf and \n
maximunNumber - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 using println
maximunNumber * 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 using print and \n
maximunNumber / 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 using printf and \n
maximunNumber % 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 using print and \t

```

This method will have a total of 50 print/println/printf statements

- 2 - Worth 2 points
 - Create and call a method called sumOfNumbers(), without passing any parameters

- In the method, assign the value **100** to the **int** N.
- Using the sum of numbers formula: $(1 + N) * (N/2)$
print the total amount of the sum of digits from **1** to **100**

To find the sum of all the numbers from **1** to **100** ($1 + 2 + 3 + 4 + \dots + 100$), the formula $(1 + N) * (N/2)$ will **do** it.
That is: (**1** plus N quantity) times (N divided by **2**).

3 - Worth **3** points

- Create variables in the main() method and assign the corresponding values **for**:
 - your name
 - your mayor
 - credits taken
 - credits **this** semester
 - **this class**'s name
- Create and call a method called myInfo(.....), passing the above parameters
 - Inside the method print:
Hi my name is .., my major is .., I have completed .. credits, I and taking .. credits, and **this class**'s name is ..