COP 2250 Java Programming - project 1 : cop2250pgm1a Professor: Michael Robinson : michael.robinson@fiu.edu e-mail Web Page : www.cs.fiu.edu/~mrobi002/teaching - Program must be named: yourLastNameFirstLetterOfYourFirstNamepgm1.java - Turn in the signed source code on paper, and email me the source code. - Make sure the program is properly documented and aligned uniformally, looking professionally, I will take points off if it not. - Include the following header in every program: Author : Your Name : COP 2250 days and time Course : Michael Robinson Professor 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 project: - Using Eclipse 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 in the main method. - Create some methods that accept, and others do not accept parameters. (MAKE SURE THE METHODS NAMES DESCRIBE WHAT THEY DO example: addNumbers) - Inside the methods do calculations when needed and print results. - Use print, println, and printf. - Use \n and \t - Use remarks to document your program. - Use for loops How: 1 - Worth 2 points - In the main method, using the proper Primitive Data Types, - Create the following variables with the following values: Data Type Variable Name Variable Contents ??? mvName = place your name here ??? creditsTaken = place your credits taken this semester = place your total amount of credits taken ??? totalCredits GPA = place your current GPA ??? ??? major = place your major className place the name of this class ??? = - Call a method named myInfo PASSING the previous variables - Create the following variable with the following value: Data Type Variable Name Variable Contents maxValue ??? = 100- Call the following methods PASSING the maxValue variable - addNumbers - substractNumbers - multiplyNumbers - divideNumbers - modNumbers

2 - Worth 1 point

- Create the following methods ACCEPTING their corresponding data variables
 - myInfo
 - addNumbers
 - substractNumbers
 - Substractivulibers
 - multiplyNumbers
 - divideNumbers
 - modNumbers
- 3 Worth 3 points
 - In the myInfo method, using the System.out.printf and \n commands print the information send from the main method and received by this method e.i.
 Hi my name is ..,
 my major is ..,
 I have completed .. credits,
 I am taking .. credits,
 This class's name is ..
 - In the addNumbers method, using the System.out.print and \n commands print the following computations: (make sure your program does the computations)

maxValue + 1 = ?? maxValue + 2 = ?? maxValue + 3 = ?? maxValue + 4 = ?? maxValue + 5 = ??

 In the substractNumbers method, using the System.out.print and \t commands print the following computations: (make sure your program does the computations)

> maxValue - 1 = ?? maxValue - 2 = ?? maxValue - 3 = ?? maxValue - 4 = ?? maxValue - 5 = ??

- In the multiplyNumbers method, using the System.out.println command print the following computations: (make sure your program does the computations)

maxValue * 1 = ?? maxValue * 2 = ?? maxValue * 3 = ?? maxValue * 4 = ?? maxValue * 5 = ??

- In the divideNumbers method, using the System.out.printf command ONLY print the following computations: (make sure your program does the computations)

maxValue / 1 = ?? maxValue / 2 = ?? maxValue / 3 = ?? maxValue / 4 = ?? maxValue / 5 = ??

- In the modNumbers method, using the System.out.print command ONLY print the following computations: (make sure your program does the computations)

maxValue % 1 = ?? maxValue % 2 = ?? maxValue % 3 = ?? maxValue % 4 = ?? maxValue % 5 = ??

- 4 Worth 2 points
 - From the main method call a method named sumOfDigits(), without passing any parameters
 - Create a method named sumOfDigits()
 - In the sumOfDigits() method declare the variable N of type int
 - Assign the value 100 to the variable N.
 - Using the sum of digits formula: (1 + N)*(N/2) print the total amount of the sum of digits from 1 to 100

The formula (1 + N)*(N/2) will calculate the sum of all the numbers from 1 to 100 (1 + 2 + 3 + 4 + . . + 100), The formula is: (1 plus N) times (N divided by 2).

5 - Worth 2 points

- From the main method call a method named forLoop(), without passing any parametersCreate a method named forLoop()
- In the forLoop() method declare the variable total of type int
- Using a for loop to the variable total, add the sum of all numbers from 1 to 100
- Use the System.out.printf and \n commands to print the variable total