CS 170 ch.7 Lab 2

# Task 1

Question: Command Line Arguments

**Part A.**

Create a java class/file called CommandLines.java with a main method.

In the main method write a loop that traverses through the args array and prints the contents of each element in the following format:

    args[0]: hello  
    args[1]: how

Save this java file in the User folder in your C drive.

Open the command prompt window and compile the program by typing:

              javac CommandLine.java

NOTE: MAKE SURE YOU ARE IN THE CORRECT DIRECTORY (CHECK YOUR PATH)

After a successful compilation of the program, run the following command by writing the arguments-

        java CommandLine argument-list

For example – java CommandLine My favorite color is Purple

Press Enter and you will get the desired output.

After performing the above steps, we will get the following output:

**args[0]: My**  
**args[1]: favorite**  
**args[2]: color**  
**args[3]: is**  
**args[4]: purple**

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part B.

Traverse through your array and print the names that contain the substring "ma" and whose length is less than 5

Test case:

      kim andy mary jose khoi omar maryam henry emma

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part C

Traverse through your array and calculate the average of all the numbers less than 7

Test case:

2 11 10 4 5 7 14 4

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Part D:

print the results from part C to a file called output.txt. **Take a screenshot of both the source code and the text file output.txt.**

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# Task 2

Question: Files, Exceptions, and Command line arguments

In this task, you will implement everything that you learned from the previous tasks. Create a folder on the desktop (or you can do this in Replit)

Add the following:

* a java file called AllClasses.java
* 3 text files called ClassA.txt, ClassB.txt, and ClassC.txt
* Populate these 3 text files with random scores. (each file should have different quantities of scores)

Task A:

Report how many students participated in the final among all 3 classes. Calculate the average score for all classes.

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Task B:

Calculate how many students failed the exam among all the classes. Grades below 70 are considered failing.

Your program should include:

-command line arguments (input the names of the files at the prompt)

-try/catch block for handling the FileNotFoundException

**Submission:**

**Include snapshots of your code, text files, and all results. Also, test your code and generate a FileNotFoundException.**

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| *Copy and paste a screenshot of your source code here.* |

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| *Copy and paste a screenshot of your test results here.* |

