

HOME WORK 2-SECTION I-2 (Total Marks:10, Weightage: 5%)

DUE DATE: 20 FEB 2020 @ 12pm

Write a program (NameAnalysisCode.java) that takes your first, middle and last names as input and prints how many characters there are in the first, middle and last name. The program should ask for your middle name only if you press Y for middle name. It should also tell the occurrence of each character in your full name in alphabetical order.

For example if your full name is Sumaira Sultan Minhas, it should print:

Please, type in your first name: Sumaira

Do you have a middle name: Y

Please type in your middle name: Sultan

Please, type in your last name: Minhas

Your full name Sumaira Sultan Minhas has 19 characters. Your first name has 7 characters. Your middle and last names have 6 characters each.//The program should print like this if you have same number of //alphabets in your first, middle or last name. See use of "have" instead of "has" and sentence structure.

A:4

H:1

I:2

L:1

M:2

N:2

R:1

S:3

T:1

U:2

The program should then:

Print your full name in Binary character codes if your first name starts with characters A-G

Print your full name in Hexadecimal character codes if your first name starts with characters H-N

Print your full name in Octal codes if your first name starts with characters O-S

Print your full name in HexaTridecimal codes if your first name starts with characters T-Z

(The logic should be implemented for each of these character codes (and should not depend on the first characters of your first name only) and for the Octal codes you should not use the built-in function rather solve it mathematically).

The program should then ask whether you want to continue with another (such as your friend's) name or not?

If the user presses Y, then the program should continue and do the same steps as mentioned above for the next name entered.

If the user presses N, the program should terminate.

Your program should say: "Wrong unit selection." if the user types something else than Y or N for middle names and for inputting another name.

*****Happy Java-ing*****