

NAME : _____

CS 4350 – Unix Systems Programming

Section Number :

Assignment Number : _____

Due Date : 2 / 15 / 2021 no later than 5:15 pm.

Write the above as comments in the script . Should appear in top left side of the script

Write a script that will take only **three** integer arguments. The script will calculate and display the following:

1. The integer arguments that are entered.
2. Sum of the 3 integer arguments .
3. Product of the 3 integer arguments.
4. Average of the 3 integer arguments.
5. Square of each integer argument.
6. Determine that each integer argument is positive, negative or zero.
7. Determine that each integer argument is odd, or even
8. Find all odd and even numbers between 1 and the second integer argument Assuming that the number is positive. If the number is negative, then find all the odd and even number between that number to 1.
9. Assuming that the first integer is an integer greater than zero, find the factorial of that first integer argument. Display an error message if it is negative.
10. Assuming that the third integer is a positive integer greater than zero, determine whether or not the third integer argument is a prime number. Display an error message if it is less than or equal to zero.
11. Display the smallest of the integer arguments
12. Display the largest of the integer arguments

Note :

1. You are not allowed to use functions or recursions

Use the following command format when running your script

`./ScriptName.sh`

For Example

`./count.sh`

Instructions :

1. The script must be syntactically and logically correct. The script will be tested **using Zeus Server** at the university.
2. Cannot use functions and recursions.
3. The output must follow the sample run format.
4. You must upload the source of your solution **using Canvas** –
Make sure you include the above as comments in your program

Make sure that you name your homework document as follows :

SP21_HW2_FirstName_LastName.sh

Where FirstName is your First Name and LastName is your Last name .

For example , the file name should look something like :

SP21_HW2_Husain_Gholoom.sh

You must upload your programs no later than the 5:15 pm on the due date. **No late assignments will be accepted..**

The following points will be deducted if :

- Compilation Errors, missing electronic copy, using recursions or functions . **(- 10 points)**
- Other (**.75 points**) if any of the following takes a place :
 - Logical Errors
 - Incorrect Output format.
 - Incorrect script file name.
 - Incorrect Style **such as but not limited to** Missing Header comments , missing footer , missing section number , missing assignment number ... etc.
 - Not replacing my name with your name.

Sample Run: The script starts her

This Script is Designed and Implemented by Husain Gholoom

The function of This script is to :

1. Display the integer arguments that are entered.
2. Sum of the 3 integer arguments .
3. Product of the 3 integer arguments.
4. Average of the 3 integer arguments.
5. Square of each integer argument.
6. Determine that each integer argument is positive, negative or zero.
7. Determine that each integer argument is odd, or even
8. Find the all odd and even numbers between 1 and the second integer argument .
9. Find the factorial of the first integer argument.
10. Determine whether or not the third integer argument is a prime number.
11. Display the smallest of the integer arguments
12. Display the largest of the integer arguments

Enter 3 integer Values - - - - > 10 , 20

**** Error - Must input 3 integer Values

Run the script again Y | N - - - - > X

**** Error - Must input Y or N

Run the script again Y | N - - - - > Y

Enter 3 integer Values - - - - > 12 5 100

- 1) You Entered 12 5 100
- 2) $12 + 5 + 100 = 117$
- 3) $12 * 5 * 100 = 6000$
- 4) $(12 + 5 + 100) / 3 = 39$
- 5) $12 * 12 = 144$, $5 * 5 = 25$, $100 * 100 = 10000$
- 6) 12 is positive , 5 is positive , 100 is positive.

7) 12 is even , 5 is odd , 100 is even

8) All odd numbers between 1 and 5 are :

3

9) All even numbers between 1 and 5 are:

2 4

10) Factorial of 5 is : 120

11) 100 is not prime

12) The Smallest integer is 5

13) The largest integer is 100

Run the script again Y | N - - - - > N

End of script

Husain Gholoom - 2 – 15 - 2021