# St. Clair College @ Ace Acumen Academy

## **COMPUTER SYSTEMS NETWORKING**

Course - 000

## ASSIGNMENT n

Instructor	Lab Tech/Instructor	Section(s)
Instructor Name	Lah Tech Name	000



Figure 1: Something

admin@system:~\$ ls -lh | grep "something"

admin@system:~\$ ls -lh

admin@system:~\$



#### Something nice

- > Stuff
  - >> more stuff
- 1. Stuff
  - > More stuff

#### **Date & Time**

There are no classes on Monday, October 9; thus, it is not possible to conduct the test during the lecture. However, your lab instructor will conduct the **midterm test during the lab hours between**October 10 and 13.

**Notice:** If I am your lab instructor on Monday, then you will take the midterm during the lab time on Monday October 16.

**Duration** 

You will have a total of **60 minutes** to complete and submit the test.

#### **Format**

- > The test will be a combination of MCQ and Short Answer Questions
  - >> **15 MCQs** [50%]
  - >> 5 short answer questions [50%]
- > You can have access to your **Linux Server, not the desktop version.**
- > You will take the test through **Microsoft Forms** using the school's computers.

**Contents** 

The test will comprehensively evaluate knowledge from weeks 1 to 5.

Rules

- > Absolutely no communication during the test.
- > Cheating will result in a grade of zero in the test and an Academic Misconduct Form.

Sample MCQ

**Question:** Which of the following Linux distribution is best suited for servers?

- > Ubuntu Desktop
- > CentOS
- > Kali Linux
- > Manjaro

**Answer: CentOS** 

### **Sample Short Answer Question**

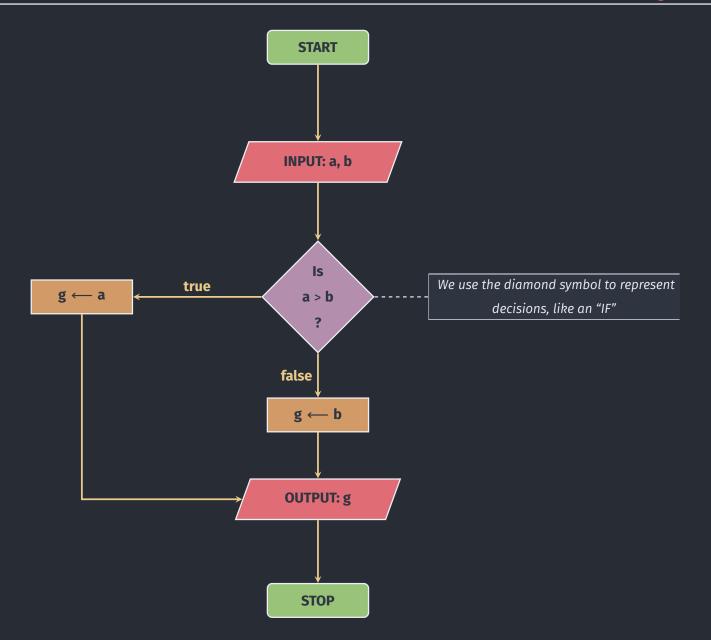
**Question:** See my prompt below. I have a file named **file1** in my home directory. Type the command to append the string "I am acing this test" to **file1** without changing the current working directory.

```
# My prompt is as below
admin@system:/usr$
```

Possible Answer: echo "I am acing this test" >> /home/admin/file1

Possible Incorrect Answer: echo "I am acing this test" >> file1

**Explanation:** The promt lets me know that my current working directory is <code>/usr</code>. Thus, if I want to append a string to <code>file1</code>, I need to specify the file's absolute path after stdout redirection.



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## **Instructions & Specs**

#### **Instructions:**

- 1. Create a new Word document.
- 2. Include a cover page with relevant information:
  - > Your name
  - > Your student ID
  - > Your section
  - > The course name, i.e., Introduction to Programming with PowerShell.
- 3. Take screenshots where specified in this lab and paste them into your Word document in the correct order.
- 4. Answer all the questions (if any.)
- **5.** Save the Word file as Assignment\_8\_FirstName\_LastName.docx. Also, save your code as Assignment\_8\_FirstName\_LastName.txt file.
- 6. Upload your word and .txt files to the lab on Teams.

#### **Specifications:**

1. Ensure each figure shows all the required information, including information that certifies the authenticity of your work, for example:

- > Comments in your code
- > Unique Solutions
- > Your name and ID in the places I specify
- 2. Use unique formatting so your work is easily distinguishable from others, but remember that your document must look professional; please refrain from using fluorescent colours and extravagant fonts.
- 3. Total number of screenshots and questions: 1.

### **Procedure**

#### **Problems**

### **Problem**

Create a PowerShell script that does the following:

- > Use a while loop to populate an array with the user's input. The elements of the array should be positive integers.
- > Create a function that calculates the <u>Geometric Mean</u> of the numbers above.
- > The function should receive pipeline input from the array you created above.
- > Ensure to include parameter validation so the elements of the array are not larger than 10000.
- > Ensure the user's values do not produce an indefinite result, i.e., calculate an even root of a negative number.