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| * **Task1: ( In Lab Task )**      * 1. Install Ubuntu OS, then identify its version.   https://i.imgur.com/lK1GQgh.png  https://i.imgur.com/5GDYKwR.png   * 1. Carry out the following:      1. Use “Echo” Command with different options and arguments to examine some Arithmetic, Logic and Quotes operations form user's input variables in three different examples.      2. Use “Cat” command with different options and arguments in three different examples to create single or multiple files, view content of a file, and redirect output in terminal or files.      3. In light of that scenario, create a simple Shell script for user’s login process as described in the given scenario and as shown in figure (1). **Use your Name as a user login name and assume your password.**      4. Form the given scenario, Analyze the usage of different types of loops and decisionmaking conditions in Shell script for the given user’s login process. * Print out the command line and script files and their outputs.        * **Task 2:**    + 1. Describe kernel types and link each type with one of Linux operating systems.     2. Based on your exploration of Linux operating system, critically explain the advantages and disadvantages of **kali** Linux as one of the most popular Linux based distribution. Then from your point of view, present briefly some of its features such as desktop environment and kernel type and applications such as network analysis or system monitoring applications.     3. Compare and contrast the required system specifications for one play Gamming applications if it has been used in basic operating system platform such as Microsoft Windows, Android OS, and Linux distribution: Red Hat or Debian. Then, discuss how it could be matched with each operating systems, and suggest any programs needed to make it works with that application, if found.     4. Critically evaluate the benefits and drawbacks of using **Ubuntu** Linux rather than **kali** Linux. For example: The desktop environment, application programs, and Web browsers. |
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**Task 3**

**:**

**a.**

From your exploration,

c

ontrast

shell

types

and

extract

the relations

for

Linux Debian

distribution

s.

**b.**

List some of Ubuntu text editors and create text file using one of them.

**c.**

Evaluate the

Pipe method for two commands, such that output of one command

serves as input to the next, with

many

options and arguments

, and examine that

with

at

least three different examples.

**d.**

Critically evaluate

the usage

of

Redirected

method using "tail"

and “head”

command

s

for text files

with example

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**Figure 1**

**Login Process**

**.**

**Sources of information**

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Class handouts and learning materials.

•

Individual research.

•

La

b tutorials.

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https://ubuntu.com/

