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Question 1 (2 points)

Match each command with its usage

apt
ssh
scp
top

- 1. useful for inquiring about the IP address
- 2. useful for updating system packages
- 3. useful for transferring data from a local machine to a remote server
- 4. useful for connecting to a remote server's terminal
- 5. useful for showing current cpu utilization rate
- 6. useful for running a process in the background

Question 2 (2 points)

Choose true or false.

	Bash scripting is generally more challenging than Python scripting		
	Post and Get http requests can be both used to upload data to the server from the client	1.	True
	In Linux, when you execute a python script, a process is created.	2.	False
	In this course, we learned how to develop scripts for Linux because we do not need to develop scripts for Windows.		
Question 3 (2	2 points)		
Match each	python library with its usage		
		1.	useful for executing an external Java program
	sys	2.	useful for parsing XML files
	BeautifulSoup	3.	useful for retrieving the

- 3. hostname
- useful for fetching HTML pages from the internet
- 5. useful for generating plots
- useful for reading command-line arguments

Question 4 (2 points)

Assume you have the following text file: marks.txt

Subprocess

requests

Ahmad 90
Alia 34
Bilal 54
Aya 61
Kareem 61
Akram 18

Write down a **Linux command** that prints the names of all students who have a mark more than 60 in a sorted alphabetical order, and stores this output in a file called output.txt? You may use pipelining and redirection, if needed.

Question 5 (4 points)

You are given the following file: page.html

```
<!DOCTYPE html>
<html>
    <head>
        <title>Exam</title>
    </head>
    <body>
        <div>
            <h1>0uestion 1</h1>
            <div class="question">
                What is the inverse of high?
            </div>
        </div>
        <div>
            <h1>Question 2</h1>
            <div class="question">
                What is the inverse of big?
            </div>
        </div>
        <div>
            <h1>0uestion 3</h1>
            <div class="question">
                What is the inverse of tall?
            </div>
        </div>
    </body>
</html>
```

Write a Python script that **reads** page.html file, then **parses** this file and **prints** the questions inside this html page on the screen. In other words, your script should scrap the questions and print them on the screen, like this:

What is the inverse of high? What is the inverse of big? What is the inverse of tall?

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Question 6 (3.5 points)

Assume we want to implement a simple client-server socket-based application in Python. In below, I already wrote the server program, which will send a 'Hello' message to the client. Your task is to write the client program. Note that the client should receive the message from the server and print it on the screen.

```
# server.py
import socket
server_socket = socket.socket()
server_socket.bind(("127.0.0.1",23000))
server_socket.listen()
conn, addr = server_socket.accept()
msq = "Hello"
conn.send(msg.encode())
conn.close()
```

Question 7 (3.5 points)

You are given the following CSV file: marks.csv

Name	Email	Mark
Mark	mark@rit.edu	90
Noora	noora@gmail.com	80
Lara	lara@rit.edu	65
Ahmad	ahmad@gmail.com	74
Terry	terry@rit.edu	62
Fred	fred@rit.edu	91
Susie	susie@gmail.com	64

As you can see, we have three columns: student names, emails, and marks. Write a **Python** script that will print the names of all students who have gmail accounts (which are Noora, Ahmad and Susie).

int: use p	andas mod	dule.			

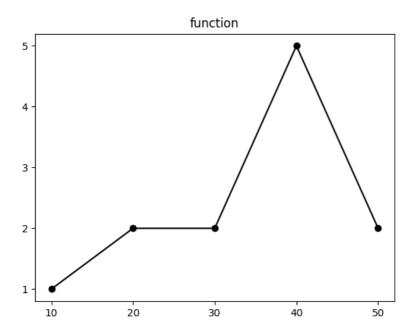
Question 8 (3.5 points)

Assume you are given the following xpoints and ypoints:

```
xpoints = np.array([10,20,30,40,50])
```

ypoints = np.array([1,2,2,5,2])

Write a python script that will generate the below plot:



I already wrote part of the code. Your job is to complete the code.



Question 9 (1 point)

System configuration files are usually stored in which folder in linux?

	/ 1
()	/etc
\ /	/ [[



()/var

/dev

Question 10 (1.5 points)

Assume the below Bash script is called script.sh

What is the output of the below command?

\$ bash script.sh 8 0 9

- 888
- \bigcirc 9
- 8
- 908
- 0809
- 999

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Question 11 (1 point)

You are given the following CSV file: marks.txt

Ahmad 90

Alia 34

Bilal 54

Aya 61

Kareem 61

Akram 18

What is the output of the below Linux command?

grep '^A' marks.txt | wc -I

4

() 6

0 (

 \bigcirc 1

 \bigcirc 2

 \bigcirc 5

 \bigcirc 3

Question 12 (2 points)

What is the output of the following Bash script?

```
#!/bin/bash
function1() {
   return $(( $1 + $2 ))
}
function2() {
   return $(( $1 - $2 ))
}
function1 9 1
x=$?
function2 9 1
y=$?
echo $x $y
  0 10
 10 10
 3 -1
108
11
 99
 91
 19
 88
```

Question 13 (1 point)

What is the output of the following Python script?

```
import numpy as np
a = np.array([ [6, 8, 4], [3, 1, 7], [2, 0, 5] ])
print(a[1])
```

[1]
(0)
([2, 0, 5]
(6, 8, 4)
[8]

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Question 14 (1 point)

[3, 1, 7]

Which statement in below is correct about the course project?

We used XML to represent the query sent from the client to the server
We used XML to represent the response sent from the server to the client
OBoth

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