Assignment 3   (Due on 26th /27th August, 2020)

Part 1. Write a script to copy your files (assignment 1) in an Amazon S3 bucket.

Part 2: Write a script to download your files from the S3 bucket to your local machine and use these files as input to your assignment 1.

Part 3: Write program to create a web tier of a cloud application. Follow the steps below:

- Create a static website with one or two HTML pages and copy the pages and dependent files in an Amazon S3 bucket.
- Create a startup script to install Apache server and copy the website files from S3 to the instance.
- Create a Python program using *boto* to launch an *t2.micro* instance. Supply the startup script you created in previous step while launching a new instance from the program. Use a security group with port 80 open.
- Your program should check the status of the newly launched instance and return the public DNS address of the instance when the status changes to "running'.
- Open the public DNS of the newly launched instance in a browser and verify if the static website works.

N.B:

1. You need to install *boto* in your Ubuntu Laptop PC. You can install *boto* from source or using *pip* command. For installation and *boto* configuration, you can follow the links below.
    - https://www.linuxnix.com/python-boto-how-to-install-and-configure-in-linuxunix/
    - http://docs.pythonboto.org/en/latest/boto_config_tut.html

2. Tutorial link: http://boto.cloudhackers.com/en/latest/index.html ; http://boto.cloudhackers.com/en/latest/ref/ec2.html