Using High-Level S3 commands with the AWS CLI

1) This exercise requires you to have the AWS CLI tool installed and configured on your local machine. Follow the links below to learn how to configure and install the CLI.

    a) Installation: https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2.html

    b) Configuration:
    https://docs.aws.amazon.com/cli/latest/userguide/cli-chap-configure.html#cli-quick-configuration

2) Write a shell script to display a menu consisting of the following options

    a) Displaying all S3 buckets

    b) Creating an S3 bucket

    c) Deleting an S3 bucket

Please refer to the image below for a sample

```
Select an option
*************************************
Enter 1 to view all S3 buckets
Enter 2 to create a new bucket
Enter 3 to delete a bucket
Enter 0 to quit
Enter your selection here and press enter
```

3) The various options in the menu should behave as shown in the examples given below

   a) For viewing all buckets

```
Select an option
*************************************
Enter 1 to view all S3 buckets
Enter 2 to create a new bucket
Enter 3 to delete a bucket
Enter 0 to quit
Enter your selection here and press enter
1
Fetching buckets now.....please wait
2019-08-05 16:45:57 elasticbeanstalk-us-east-1-511948551519
2019-09-01 14:44:33 elasticbeanstalk-us-east-2-511948551519
Press the enter key to continue!
```

b) For creating a new bucket

```
Select an option
**************************************
Enter 1 to view all S3 buckets
Enter 2 to create a new bucket
Enter 3 to delete a bucket
Enter 0 to quit
Enter your selection here and press enter
2
Enter the bucket name:
testbucketgl
Creating bucket now.....please wait
make_bucket: testbucketgl
Press the enter key to continue!
```

c) For deleting buckets

```
Select an option
**************************************
Enter 1 to view all S3 buckets
Enter 2 to create a new bucket
Enter 3 to delete a bucket
Enter 0 to quit
Enter your selection here and press enter
3
Enter the bucket name:
testbucketgl
Deleting bucket now.....please wait
remove_bucket: testbucketgl
Press the enter key to continue!
```

4) The above images are for reference only. You have the freedom to design the menu as per your choice as long as the core functionality of the script remains unchanged.

Notes:

1) While creating an S3 bucket, the following needs to be kept in mind.
   Bucket names must be globally unique and should be DNS compliant. Bucket names can contain lowercase letters, numbers, hyphens, and periods. Bucket names can start

and end only with a letter or number, and cannot contain a period next to a hyphen or another period.

2) Non-empty buckets cannot be deleted and trying to delete them will result in an error

Useful References

1) https://docs.aws.amazon.com/cli/latest/userguide/cli-services-s3-commands.html
2) https://www.shellscript.sh/functions.html
3) https://www.shellscript.sh/case.html
4) https://www.shellscript.sh/loops.html