Test Automation assignment

1. Check duplicate items from list A and list B and append to a new list. Using your preferred programming language.

   List A : [1,2,3,5,6,8,9]

   List B : [3,2,1,5,6,0]

2. Create automation script to test website 'http://the-internet.herokuapp.com/login' following test cases in table below. You can use your preferred programming language.

   a. This is a simple login website. Here is the username and password.

   i. Username: tomsmith

   ii. Password: SuperSecretPassword!

Test case name	Objective	Test Steps	Expected Result
Login success	To verify that users can login successfully when input a correct username and password.	1. Open browser and go to 'http://the-internet.herokuapp.com/login'. 2. Input username 'tomsmith' and password 'SuperSecretPassword!'. 3. Click the 'Logout' button.	1. Login page is shown. 2. Login success and message 'You logged into a secure area!' is shown. 3. Go back to the Login page and the message ' You logged out of the secure area!' is shown.
Login failed - Password incorrect	To verify that users can login unsuccessfully when they input a correct username but wrong password.	1. Open browser and go to 'http://the-internet.herokuapp.com/login'. 2. Input username 'tomsmith' and password 'Password!'.	1. Login page is shown. 2. Login failed and the message 'Your password is invalid!' is shown.
Login failed - Username not found	To verify that users can login unsuccessfully when they input a username that did not exist.	1. Open browser and go to 'http://the-internet.herokuapp.com/login'. 2. Input username 'tomholland' and password 'Password!'.	1. Login page is shown. 2. Login failed and the message 'Your username is invalid!' is shown.

3. Create automation script using your preferred programming language for test Rest API GET request.
    a. Test scenarios: Send Get request to url: https://reqres.in/api/users/12

Test case name	Objective	Test Steps	Expected Result
Get user profile success	To verify get user profile api will return correct data when trying to get profile of existing user	1. Send Get request to url https://reqres.in/api/users/12	1. Verify response status code should be ‘200’ 2. Compare the response body with expected below. ‘ID’ == 12 ‘Email’ == rachel.howell@reqres.in ‘First Name’ == Rachel ‘Last Name’ == Howell ‘Avatar’ == https://reqres.in/img/faces/12-image.jpg
Get user profile but user not found	To verify get user profile api will return 404 not found when trying to get exist profile of not existing user	1. Send Get request to url https://reqres.in/api/users/1234	1. Verify response status code should be ‘404’. 2. Response body should be '{}'

4. Design test coverage and create automated test scripts. Project manager assigns you to test mobile application. You can download source code from https://github.com/avjinder/Minimal-Todo
   Please prepare test cases and create automation test scripts to cover the features.

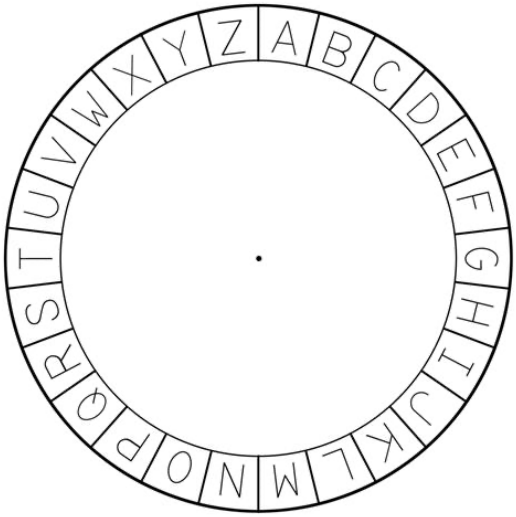
Please using Robot Framework + Appium framework

*** Please commit your automated source code into github/bitbucket.

5. Please create jenkins pipeline for executing automated script.

```
pipeline {
  agent {-----}
  stages {
    stage('Checkout Code From Git') {
    }
  }
  stages {
    stage('Run Test Automate') {
    }
  }
  stages {
    stage('Send Result To Jenkins') {
    }
  }
}
```

6. A simple cipher is built on the *alphabet* wheel which has uppercase English letters *['A'-'Z']* written on It:



Given an encrypted string consisting of English letters *['A'-'Z']* only, decrypt the string by replacing each character with the k^{th} character away on the wheel in the

counterclockwise direction, Counter-clockwise is the opposite direction in which the hands on a clock usually move. (Using python)

Example

encrypted = *'VTAOG'*

k=2

Looking back 2 from *'V'* returns *'T'*, from *'T'* returns *'R'* and so on. The decrypted string is *'TRYME'*.

Function Description

Complete the function *simpleCipher* in the editor below.

simpleCipher has the following parameter(s):

encrypted: a string

k: an integer