# Spring 2022 CSE 321 Operating Systems Lab Assignment 2

Deadline: 19 March, 11:59 PM

comparisons, you need to	carry out three operation	erical inputs. Depending on some ns: addition (+), subtraction (-) and be implemented in separate methods.
i. If the first number is greather result.	eater than the second nur	mber, do subtraction and print
ii. If the first number is les	ss than the second numb	per, do an addition and print the
iii. If the second number is equal to the first number, do multiplication and print the result [2 Marks]		
b. Write a program that allows you to erase multiple spaces in a <b>text file</b> . Then re-write the sentence without extra spaces in another <b>text file</b> .		
Input:		
I love	Python	Programming.
Output:		
I love Python Programmin	ng.	

You can use the split function to separate the words into a list. [3 Marks]

Hints:

- c. Again, you have lost your USIS password!! You went to the registrar's office and requested a new password. This time, you need to follow some rules to set your password. Otherwise, they won't change it. The rules are:
- At least one lowercase letter
- At least one uppercase letter
- At least one digit (0-9)
- At least one special character ( , \$, #, @)

Your task is to find whether a given password follows all those rules. If it breaks any rule, you have to print "Lowercase Missing", "Uppercase Missing", "Digit Missing" or "Special Missing" respective to the missing case. For more than one rule break, print all the rules that were broken (order doesn't matter). If the password is ok, print "OK".

[3 Marks]

#### Sample Input:

- BR@CUspring
- bracuspring
- BR@CU20spring22

#### Sample Output:

- Digit missing
- Uppercase character missing, Digit missing, Special character missing
- OK
- d. A company named Sheba.xyz has recently moved from their old domain to a new domain. However, a lot of the company email addresses are still using the old one (employeeName@kaaj.com). Write a function in C that takes the email id of an employee as input and checks whether that email id is updated (I.E. using a new domain employeeName@sheba.xyz) or not. [3 Marks]

## Sample Input:

- fahmid@kaaj.com
- zaki@sheba.xyz

### Sample Output:

- Email address is outdated
- Email address is okay

e. Take a string input from the user and find out whether it is a palindrome or not using pointers. [3 Marks]

Sample Input: AAABBAAA AABBABA Aabcbaa

Sample Output: Palindrome Not Palindrome Palindrome