

## Assignment -2

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- ① i) compare two strings lexicographically

Sol:- Start at the beginning of both strings.

Input string 1

Input string 2

Convert string1 to lowercase

Convert string2 to lowercase

If string1 equals string2

Print "Both strings are equal"

else if string1 comes before string2

Print "string1 is smaller"

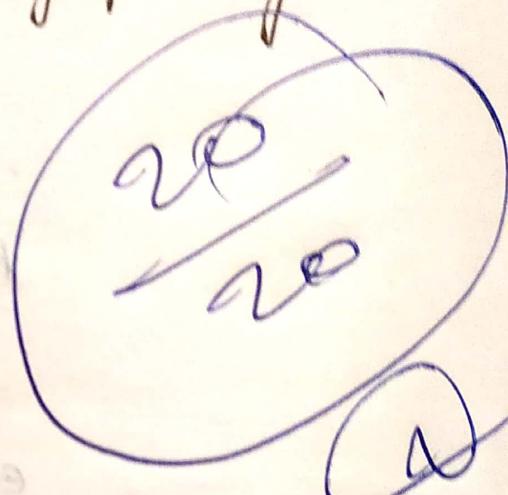
else

Print "string2 is greater"

End if

stop.

- ii) Check whether a string ends with another string



Start  
input mainstring  
input substring  
if mainstring ends with substring  
    print "yes, it ends with given string"  
else  
    print "No, it does not end"  
end if  
stop

iii) print current Date and time  
Start  
Get current date and time  
Define format (for example: dd-MM-yyyy HH:mm:ss)  
Display date and time in that format  
stop

iv) Get index of all characters of Alphabet (a-z)  
Start  
set s = "The quick brown fox jumps over the lazy dog"  
for each letter from 'a' to 'z'  
    Find index of that letter in s (ignore case)  
    print letter and its index  
End for  
stop

v) Replace substring using Regular Expression  
Start  
set s = "The quick brown fox jumps over the lazy dog"  
Replace all occurrences of "fox" with "cat"

Step

vi) Get Substring b/w Two positions

Start

Input string s

Input start position

Input end position

Extract substring from Start to end-1

Print substring

Step

vii) Trim leading and Trailing spaces

Start

Input string s

Remove space from beginning and end

Print trimmed string

Step

viii) Convert string to lowercase

Start

Input string s

convert s to lowercase

Print s

Step

ix) Get length of string

Start

Input string s

find number of characters in s

Print length

Step



x) Check whether Two string objects contain same data

Start  
Input string1  
Input string2  
if string1 equals string2  
    print "Both contain same data"  
else  
    print "Data is different"  
End if  
stop

(2) Hospital management system using ArrayList

SOL: START  
Create ArrayList patient  
while true  
    Display menu:  
        1. Register patient  
        2. Update patient  
        3. Display patients  
        4. Remove Inactive patients  
        5. Exit  
    Read choice  
    if choice = 1 then  
        Create new patient object  
        Input name, age, sex, address, illness, charges,  
            admissionDays  
        Add patient to patients list  
        Print "Patient Registered successfully"

else if choice = 2 then  
Input patient name to update  
for each patient in patients  
if name matches then  
update age, address, illness, charges, admission  
print "patient updated"  
end if  
end for  
else if choice = 3 then  
for each patient in patients  
Print name, age, sex, address, illness, charges,  
admissionDays  
end for  
else if choice = 4 then  
for each patient in patients  
if admissionDays > 15 then  
remove patient from list  
print "Inactive patient removed"  
end if  
end for  
else if choice = 5 then  
Break

else

print "Invalid choice"

end while

Stop