King Saud University	
College of Computer and Information Sciences	
Computer Science Department	
CSC 111	First Semester
Introduction to Programming with Java	1440-1441

## self-checked sheet: String and loop

1- Write a Java program to print after removing duplicates from a given string.

```
Example
The given string is: abcdc
After removing duplicates characters the new string is: abcd
algorthim:
start
read string
loop every character in string
if character doesn't appear in another index in the string
add character to new string
print new string
end
hint:
what method can tell you if a character occur in a string or not
```

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2- Write a Java program to find first non repeating character in a string.

```
Example
The given string is: aaabbbbnnnuuuuuissssddd
The first non repeated character in String is: i
```

```
|-- Scanner input = new Scanner(System.in);
|-- int i,j;
|-- System.out.println("Enter a string: ");
|-- String str = "aaaaaaaaiuuuu"; //input.nextLine();
|-- for( i = 0; i < str.length(); i++) {
|-- boolean repet = true;
|-- for ( j = 0; j < str.length(); j++) {
|-- lif(i!=j && str.charAt(i)==str.charAt(j)) {
|-- lif(i!=j && str.charAt(i)==str.charAt(j)) {
|-- lif(i!=j && str.charAt(i)==str.charAt(j));
|-- lif(repet) {
|-
```

selection and Loop 2

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## 3- Write a Java program to reverse a string

```
Example
The given string is: The quick brown fox jumps
The string in reverse order is:
spmuj xof nworb kciuq ehT
algorthim:
start
read string
loop every character in string from the end of the string
add character to new string
print new string
end
hint: how is this loop updated ?
```

```
import java.util.Scanner;

public class java_practice{
    public static void main(String args[]) {
        Scanner input = new Scanner(System.in);
        int i,j;
        System.out.println("Enter a string: ");
        String str = input.nextLine();
        for (j = str.length()-1; j >= 0; j--) {
            System.out.print(str.charAt(j));
        }
        L}
}
```

selection and Loop 3