1. Reverse a String: Write a Java program to reverse a given string without using any built-in functions or libraries.
2. Palindrome Check: Write a Java program to check if a given string is a palindrome.
3. Count Vowels and Consonants: Write a function to count the number of vowels and consonants in a given string.
4. Find Missing Character: Given two strings, one is a shuffled version of the other with one character missing. Write a function to find the missing character.
5. reverse Words in a Sentence: Given a sentence, reverse the order of words in it.
6. Remove Duplicate Characters: Write a function to remove duplicate characters from a given string.
7. Longest Word in Sentence: Given a sentence and a list of words, find the longest word in the sentence that is also present in the list of words.
8. **Is String a keyword in java ?**
9. **How to convert String to char Array?**
10. **How many different ways you can create a String object?**
11. **Are String thread-safe in java?**
12. **Which class is final among String, StringBuilder and StringBuffer?**
13. **What is the difference between String and StringBuffer in java?**
14. **What is the difference between StringBuilder and StringBuffer in java?**
15. **Why is String immutable in java ?**
16. **How will you create an immutable class in java?**
17. **Is it possible to call String class methods using String literals?**
18. **How to Split String in java?**
19. **Write a java program to find the first non repeated character in the String?**
20. **Write the program to Find out if String has any Unique Characters?**
21. **How to remove all the white-spaces in the String?**
22. **How to calculate total number of characters in the String?**
23. **How to calculate total number of vowels in String?**
24. **What is String?**
25. **Why String Constant Pool ?**
26. **What is String Constant Pool?  Why java provided String Constant pool as we can store String in the heap memory?**
27. **How does substring() method works in java?**
28. **How to Count occurrences of each character in a String in java?**

EXAMPLE:

Write a java program to count occurrences of each character in String in java. If the String is   
**"Java Hungry"**then the answer should be

**{ =1, a=2, r=1, u=1, v=1, g=1, H=1, y=1, J=1, n=1}**

1. **How to Convert Signed Integer to String?**   
     
   Here to convert signed int to string in java, two case arises :  
     
   **1. If number is positive (+ve)**   :  
      
       Input : 84   Output :  "84"  
     
   **2. If number is negative (-ve)**  
   Input : -84  Output : "-84"
2. **How to remove specific characters in the String?**   
     
   To remove specific characters in the String .For example,  
     
   If the *original string is* "**Alive is awesome**"   and the *user inputs string* to **remove "alwsr"**  then it should print **"ive i eome" as output .**
3. **Convert Lowercase to Uppercase in java and Uppercase to Lowercase without using built in method ?**
4. **Find the length of the String without using length() method?**
5. **What is Character encoding? Explain the difference between UTF-16 and UTF-8?**
6. **How to remove all the white-spaces in the String?**
7. **Explain the difference between str1.equals("abc") and "abc".equals(str1), where str1 is any String object?**  
   If str1 value is "abc" then both statements will give the result true. Main difference between the two statement arises when we pass str1 value as NULL. If the str1 is null then first statement will throw null pointer exception while second statement will return false.