String

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```java
package String01;

public class _01_Reverse_word {
	public static void main(String[] args) {
		String s = "java";
		String rev = "";
		for (int i = s.length() - 1; i >= 0; i--) {
			rev += s.charAt(i);
		}
		System.out.println(rev);
	}

}
```

```java
package String01;

public class _02_Palindrome {
	public static void main(String[] args) {
		String s = "level";
		String rev = "";

		for (int i = s.length() - 1; i >= 0; i--) {
			rev += s.charAt(i);
		}

		if (rev.equalsIgnoreCase(s)) {
			System.out.println("palindrome");
		} else {
			System.out.println("not a palindrome");
		}
	}

}
```

```java
package String01;

public class _03_Palindrome_without_equals_method {

	static boolean pal(String s) {
		int si = 0;
		int ei = s.length() - 1;

		while (si < ei) {
			if (s.charAt(si) != s.charAt(ei)) {
				return false;
			}
			si++;
			ei--;
		}
		return true;
	}

	public static void main(String[] args) {
```

```
		String s = "tenet";

		s = s.toLowerCase();

		if (pal(s)) {
			System.out.println("palindrome");
		} else {
			System.out.println("Not a Palindrome");
		}
	}

}
```

```
package String01;

public class _04_Replace_and_ReplaceAll_methods {

	public static void main(String[] args) {
		// replace old char to new char
		String s = "Watch the Wall".replace('W', 'C');
		System.out.println(s);

		// remove the extra space in the sentence
		String s1 = "   hello java   hello    world   ".replaceAll(" +", " ");
		System.out.println(s1);

		// remove the special character and numbers

		String s2 = "#P12rO34!gR@Amm78iNg".replaceAll("[@#!0-9]", "");

		System.out.println(s2);

		// i/p : #Move#Hast#toFirst o/p : ###MoveHashtoFirst

		String s3 = "#Move#Hast#toFirst";
		String s4 = s3.replaceAll("[^#]", "");
		String s5 = s3.replaceAll("[^A-za-z]", "");

		System.out.println(s4 + s5);

//			Check the given String is palindrome or not - i/p : "123Le23!3V$E89l23" o/p - level
```

```
		String str = "123Le23!3V$E89l23".replaceAll("[^A-za-z]", "");
		String rev = "";

		for (int i = str.length() - 1; i >= 0; i--) {
			rev += str.charAt(i);
		}
		if (rev.equalsIgnoreCase(str))
			System.out.println("palindrome :" + str.toLowerCase());
		else
			System.out.println("not a palindrome");

	}

}
```

```
package String01;

public class _05_Reverse_word_Without_using_charAt_method {

	public static void main(String[] args) {

		String s = "hello";
		char[] ch = s.toCharArray();

		for (int i = ch.length - 1; i >= 0; i--) {
			System.out.print(ch[i]);
		}
	}

}
```

```
package String01;

public class _06_Reverse_sentence {

	public static void main(String[] args) {

		String s = "hi how are you";
```

```
		String[] s1 = s.split(" ");

		for (int i = s1.length - 1; i >= 0; i--) {
			System.out.print(s1[i] + " ");
		}
	}

}
```

```
package String01;

public class _07_Reverse_each_words_in_sentence {

	public static void main(String[] args) {

		String s = "hi how are you";

		String[] s1 = s.split(" ");

		for (int i = 0; i < s1.length; i++) {
			rev(s1[i]);
		}
	}

	static void rev(String s) {
		String rev = "";
		for (int i = s.length() - 1; i >= 0; i--) {
			rev += s.charAt(i);
		}
		System.out.print(rev + " ");
	}
}
```

```
package String01;

public class _08_count_each_words_in_sentence {
```

```
	public static void main(String[] args) {
		String s = "hi how are u";

		String[] s1 = s.split(" ");

		for (int i = 0; i < s1.length; i++) {
			count(s1[i]);
		}
	}

	static void count(String s) {
		int count = 0;
		for (int i = 0; i < s.length(); i++) {
			count++;
		}
		System.out.print(count + " ");
	}

}
```

```
package String01;

public class _09_Malayalam {

	public static void main(String[] args) {

		String s = "my mom said to me learn malayalam but im from katak place it is in gadag
place";

		String[] s1 = s.split(" ");

		for (int i = 0; i < s1.length; i++) {
			pal(s1[i]);
		}
	}

	static void pal(String s) {
		String rev = "";
		for (int i = s.length() - 1; i >= 0; i--) {
			rev += s.charAt(i);
```

```
            }
            if (rev.equalsIgnoreCase(s)) {
                System.out.print(s + " ");
            }
        }

}
```

```
package String01;

public class _10_ASCII_Conversion {

    public static void main(String[] args) {
        String s = "adjcn";

        char[] ch = s.toCharArray();
        for (int i = s.length() - 1; i >= 0; i--) {
            char ch1 = (char) (ch[i] + 1);
            System.out.print(ch1);
        }

        System.out.println();

        String s1 = "hello";
        char[] ch1 = s1.toCharArray();

        for (int i = 0; i < s1.length(); i++) {
            char ch3 = (char) (ch1[i] + 4);
            System.out.print(ch3);
        }

    }

}
```

```
package String01;

public class _11_palindrome {
```

```
	static boolean pal(String s) {
		int si = 0;
		int ei = s.length() - 1;
		while (si < ei) {
			if (s.charAt(si) != s.charAt(ei)) {
				return false;
			}
			si++;
			ei--;
		}
		return true;
	}

	public static void main(String[] args) {
		String s1 = "@123LevE#13l#!";

		String s2 = s1.replaceAll("[^A-za-z]", "");

		String s3 = s2.toLowerCase();

		boolean res = pal(s3);

		if (res)
			System.out.println(s3 + " is palindrome");
		else
			System.out.println(s3 + " is not a palindrome");

	}

}
```

```
package String01;

public class _12_JaVa {

	public static void main(String[] args) {

		String s = "JaVa";

		for (int i = 0; i < s.length(); i++) {
			char ch = s.charAt(i);
```

```
                if (ch >= 'A' && ch <= 'Z') {
                        System.out.print((char) (ch + 32));
                } else if (ch >= 'a' && ch <= 'z') {
                        System.out.print((char) (ch - 32));
                }

        }

    }

}
```

```
package String01;

public class _13_Frequency_of_String {

    public static void main(String[] args) {
        String s = "anagram";

        int[] arr = new int[128];

        for (int i = 0; i < s.length(); i++) {
            arr[s.charAt(i)]--;

        }

        for (int i = 0; i < arr.length; i++) {
            if (arr[i] != 0) { // (arr[i] == 1) ---> unique character
                System.out.println((char) i + " " + arr[i]);
            }
        }

    }
}
```

```
package String01;

public class _14_Character_Frequency_in_char_Array {
```

```
	public static void main(String[] args) {

		char[] ch1 = { 'P', 'r', 'O', 'g', 'R', 'A', 'M', 'M', 'I', 'n', 'G' };

		int[] arr = new int[128];

		// char to String

		String s = new String(ch1);

//		System.out.println(s);

		for (int i = 0; i < s.length(); i++) {
			char ch = s.charAt(i);
			arr[ch]++; // store
		}

		for (int i = 0; i < arr.length; i++) {
			if (arr[i] != 0) {
				System.out.println((char) i + "  " + arr[i]);
			}
		}

	}

}
```

```
package String01;

public class _15_UpperCase_Frequency_in_String {

	public static void main(String[] args) {

		String s = "www.PROgRaMMInG@GmAil.CoM".replaceAll("[^A-Z]", "");

//		s = s.replaceAll("[^A-Z]", "");

//		System.out.println(s1);

		int[] arr = new int[128];
```

```
            for (int i = 0; i < s.length(); i++) {
                char ch = s.charAt(i);
                arr[ch]++;

            }

            for (int i = 0; i < arr.length; i++) {
                if (arr[i] != 0) {
                    System.out.println((char) i + " " + arr[i]);
                }
            }

        }

    }
```