1. Java String Program to Print Even-Length Words

```
public class EvenLengthWords {
    public static void main(String[] args) {
        String str = "Hello world Java is fun";
        String[] words = str.split(" ");

        for (String word : words) {
            if (word.length() % 2 == 0) {
                System.out.println(word);
            }
        }
    }
}
```

2. Java String Program to Insert a String into Another String

```
public class InsertString {
    public static void main(String[] args) {
        String original = "Hello World!";
        String toInsert = "Beautiful ";
        int index = 6; // Position after "Hello "

        String result = original.substring(0, index) + toInsert + original.substring(index);
        System.out.println(result);
    }
}
```

3. Java String program to check whether a string is a Palindrome

```
public class PalindromeCheck {
    public static void main(String[] args) {
        String str = "madam";
        boolean isPalindrome = true;
        int len = str.length();

        for (int i = 0; i < len / 2; i++) {
            if (str.charAt(i) != str.charAt(len - i - 1)) {
                isPalindrome = false;
                break;
            }
        }

        System.out.println(isPalindrome ? "Palindrome" : "Not a Palindrome");
    }
}
```

4. Java String Program to Check Anagram

```
import java.util.Arrays;

public class AnagramCheck {
    public static void main(String[] args) {
        String str1 = "listen";
        String str2 = "silent";

        char[] arr1 = str1.toCharArray();
        char[] arr2 = str2.toCharArray();

        Arrays.sort(arr1);
        Arrays.sort(arr2);

        System.out.println(Arrays.equals(arr1, arr2) ? "Anagram" : "Not an Anagram");
    }
}
```

5. Java String Program to Reverse a String

```
public class ReverseString {
    public static void main(String[] args) {
        String str = "Java";
        String reversed = "";

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

        System.out.println(reversed);
    }
}
```

6. Java String Program to Swapping Pair of Characters

```
public class SwapCharacters {
    public static void main(String[] args) {
        String str = "abcdef";
        char[] arr = str.toCharArray();
```

```
        for (int i = 0; i < arr.length - 1; i += 2) {
            char temp = arr[i];
            arr[i] = arr[i + 1];
            arr[i + 1] = temp;
        }

        System.out.println(new String(arr));
    }
}
```

7. Java String Program to Replace a Character at a Specific Index

```
public class ReplaceCharAtIndex {
    public static void main(String[] args) {
        String str = "hello";
        int index = 1; // Replace character at index 1
        char newChar = 'a';

        char[] arr = str.toCharArray();
        arr[index] = newChar;

        System.out.println(new String(arr));
    }
}
```

8. Java String Program to Remove Leading Zeros

```
public class RemoveLeadingZeros {
    public static void main(String[] args) {
        String str = "00012345";
        str = str.replaceFirst("^0+", "");

        System.out.println(str);
    }
}
```

9. Java String Program to Sort a String

```
import java.util.Arrays;

public class SortString {
```

```
    public static void main(String[] args) {
        String str = "java";
        char[] arr = str.toCharArray();

        Arrays.sort(arr);

        System.out.println(new String(arr));
    }
}
```

10. Java String Program to Compare Two Strings

```
public class CompareStrings {
    public static void main(String[] args) {
        String str1 = "Hello";
        String str2 = "hello";

        System.out.println(str1.equals(str2)); // Case-sensitive comparison
        System.out.println(str1.equalsIgnoreCase(str2)); // Case-insensitive comparison
        System.out.println(str1.compareTo(str2)); // Lexicographical comparison
    }
}
```