

1) Program to read two Strings & Concatenate the Strings.

Code:-

```

MyClass.java x
1  import java.util.Scanner;
2  public class MyClass {
3      String concatenateStrings(String myString1, String myString2){
4          String tempString = "";
5
6          tempString=tempString.concat(myString1);
7          tempString=tempString.concat(myString2);
8
9          //or
10         tempString = myString1 + myString2;
11         return tempString;
12     }
13
14     public static void main(String[] args) {
15         Scanner scanner = new Scanner(System.in);
16         System.out.print("Enter First String : ");
17         String myString1 = scanner.nextLine();
18         System.out.print("Enter Second String : ");
19         String myString2 = scanner.nextLine();
20
21         MyClass obj = new MyClass();
22         String concatedString = obj.concatenateStrings(myString1,myString2);
23         System.out.println(concatedString);
24
25     }
26 }
27

```

Output:-

```

MyClass x
"C:\Program Files\Amazon Corretto\jdk11.0.15_9\bin\java.exe"
Enter First String : My Name is :
Enter Second String : Vishal Gupta
My Name is : Vishal Gupta

Process finished with exit code 0

```

2) Program to check if the Substring is present in the given String.

Code:-

```

1  public class MyClass {
2      @Boolean isSubStringPresent(String subString, String myString){
3
4          return myString.contains(subString);
5      }
6
7      public static void main(String[] args) {
8
9          MyClass obj = new MyClass();
10
11         String myString = "My name is Vishal Gupta";
12         String subString = "Vishal";
13         String subString2 = "Aman";
14
15         System.out.println(obj.isSubStringPresent(subString,myString));
16         System.out.println(obj.isSubStringPresent(subString2,myString));
17     }
18 }

```

Output:-

```
MyClass x
"C:\Program Files\Amazon Corretto\jdk11.0.15_9\bin\java.exe"
true
false

Process finished with exit code 0
```

3) Program to Accepts Two Strings & Compare them.

Code:-

```
MyClass.java x
2 usages
1 public class MyClass {
2     3 usages
3     @ boolean ComapreTwoString(String myString1, String myString2){
4         if(myString1.length()!=myString2.length()){
5             return false;
6         }
7         else {
8             for (int i = 0; i < myString1.length(); i++) {
9                 if (myString1.toCharArray()[i] != myString2.toCharArray()[i]) {
10                     return false;
11                 }
12             }
13             return true;
14         }
15     }
16
17     public static void main(String[] args) {
18         MyClass obj = new MyClass();
19
20         System.out.println(obj.ComapreTwoString("Vishal Gupta","Vishal Gupta"));
21         System.out.println(obj.ComapreTwoString("Vishal Gupta","Vishal"));
22         System.out.println(obj.ComapreTwoString("Vishal Gupta","Vishal Kumar"));
23     }
24 }
```

Output:-

```
MyClass x
"C:\Program Files\Amazon Corretto\jdk11.0.15_9\bin\java.exe"
true
false
false

Process finished with exit code 0
```

4) Program to Find the Length of a String without using the Built-in Function.

Code:-

```
MyClass.java x
2 usages
1 public class MyClass {
2     4 usages
3     @ Integer findLengthOfString(String myString){
4
5         int count=0;
6         for(Character ch:myString.toCharArray()){
7             count++;
8         }
9
10        return count;
11    }
12
13    public static void main(String[] args) {
14        MyClass obj = new MyClass();
15        System.out.println("Length of string \"Hello World\" is : " + obj.findLengthOfString( myString: "Hello World"));
16        System.out.println("Length of string \"Hello\" is : " + obj.findLengthOfString( myString: "Hello"));
17        System.out.println("Length of string \"\" is : " + obj.findLengthOfString( myString: ""));
18        System.out.println("Length of string \" \" is : " + obj.findLengthOfString( myString: " "));
19    }
20 }
```

Output:-

```
MyClass x
"C:\Program Files\Amazon Corretto\jdk11.0.15_9\bin\java.exe"
length of string "Hello World" is : 11
length of string "Hello" is : 5
length of string "" is : 0
length of string " " is : 1

Process finished with exit code 0
```

5) Program to Check if a String is a Palindrome without using the Built-in Function.

Code:-

```
MyClass.java x
2 usages
1 public class MyClass {
2
3 @ 4 usages
4 boolean isStringPalindrome(String myString){
5     String tempString="";
6     for(int i=myString.length()-1;i>=0;i--){
7         tempString+=myString.toCharArray()[i];
8     }
9     if(tempString.equals(myString)){
10         return true;
11     }
12     else{
13         return false;
14     }
15 }
16
17 public static void main(String[] args) {
18     MyClass obj = new MyClass();
19     System.out.println("\n\"Vishal\" is palindrome : " + obj.isStringPalindrome( myString: "Vishal"));
20     System.out.println("\n\"radar\" is palindrome : " + obj.isStringPalindrome( myString: "radar"));
21     System.out.println("\n\"Radar\" is palindrome : " + obj.isStringPalindrome( myString: "Radar"));
22     System.out.println("\n\"madam\" is palindrome : " + obj.isStringPalindrome( myString: "madam"));
23 }
24 }
```

Output:-

```
MyClass x
"C:\Program Files\Amazon Corretto\jdk11.0.15_9\bin\java.exe"
"Vishal" is palindrome : false
"radar" is palindrome : true
"Radar" is palindrome : false
"madam" is palindrome : true

Process finished with exit code 0
```

6) Program to Replace all the Characters by Lowercase.

Code:-

```
MyClass.java x
2 usages
1 public class MyClass {
2
3 @ 3 usages
4 String allLowerCase(String myString){
5     char[] myCharArray = myString.toCharArray();
6     for(int i=0;i<myCharArray.length;i++){
7         if(myCharArray[i]>='A' && myCharArray[i]<='Z'){
8             myCharArray[i] = (char)((int)myCharArray[i]+32);
9         }
10    }
11    myString="";
12    for(int i=0;i< myCharArray.length;i++){
13        myString += myCharArray[i];
14    }
15    return myString;
16 }
17
18 public static void main(String[] args) {
19     MyClass obj = new MyClass();
20
21     System.out.println("Lowering alphabets of String \"VisHal GUpta\" : " + obj.allLowerCase( myString: "VishHal GUpta"));
22     System.out.println("Lowering alphabets of String \"HELlo wORLD\" : " + obj.allLowerCase( myString: "HELlo wORLD"));
23     System.out.println("Lowering alphabets of String \"UpER CAsE\" : " + obj.allLowerCase( myString: "UpER CAsE"));
24 }
25 }
26 }
```

Output:-

```
MyClass x
"C:\Program Files\Amazon Corretto\jdk11.0.15_9\bin\java.exe"
Lowering alphabets of String "VisHaL GUpta" : vishha! gupta
Lowering alphabets of String "HElLo wORLd" : hello world
Lowering alphabets of String "UpER CAse" : uper case

Process finished with exit code 0
```

7) Program to Replace Lowercase Characters by Uppercase & Vice-Versa.

Code:-

```
MyClass.java x
2 usages
1 public class MyClass {
2   @ 2 usages
3   String lowerToUpperAndViceVersa(String myString){
4       String tempStr = "";
5
6       for (Character ch:myString.toCharArray()) {
7           if(ch>='A' && ch<='Z'){
8               tempStr = tempStr + (char)((int)ch + 32);
9           } else if(ch>='a' && ch<='z'){
10               tempStr = tempStr + (char)((int)ch - 32);
11           }
12           else{
13               tempStr = tempStr + ch;
14           }
15       }
16
17       return tempStr;
18   }
19
20   public static void main(String[] args) {
21       MyClass obj = new MyClass();
22       System.out.println("LowerToUpper and Vice Versa of String \"ViSHaL GuPTa\" : " + obj.lowerToUpperAndViceVersa( myString: "ViSHaL GuPTa"));
23       System.out.println("LowerToUpper and Vice Versa of String \"HElLo WorlD\" : " + obj.lowerToUpperAndViceVersa( myString: "HElLo WorlD"));
24   }
25 }
```

Output:-

```
MyClass x
"C:\Program Files\Amazon Corretto\jdk11.0.15_9\bin\java.exe" "-javaagent
LowerToUpper and Vice Versa of String "ViSHaL GuPTa" : vISHAL gUPTA
LowerToUpper and Vice Versa of String "HElLo WorlD" : heLLo wORLD

Process finished with exit code 0
```

8) Program to Count the Number of Vowels & Consonants in a Sentence.

Code:-

```
MyClass.java x
2 usages
1 public class MyClass {
2   @ 2 usages
3   int[] countVariablesC consonant(String myString){
4       int vowelCount=0;
5       int consonantCount=0;
6
7       for(char ch:myString.toLowerCase().toCharArray()){
8           if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u'){
9               vowelCount +=1;
10           } else if (ch>='a' && ch<='z') {
11               consonantCount += 1;
12           }
13       }
14
15       return new int[]{vowelCount, consonantCount};
16   }
17
18   public static void main(String[] args) {
19       MyClass obj = new MyClass();
20       int[] vc1 = obj.countVariablesC consonant( myString: "Vishal Gupta");
21       int[] vc2 = obj.countVariablesC consonant( myString: "My Company name is Axis Bank");
22       System.out.println("String \"Vishal Gupta\" contains " + vc1[0]+ " and " + vc1[1] + " consonants");
23       System.out.println("String \"My Company name is Axis Bank\" contains " + vc2[0]+ " and " + vc2[1] + " consonants");
24   }
25 }
```

Output:-

```
MyClass
"C:\Program Files\Amazon Corretto\jdk11.0.15_9\bin\java.exe" "-javaagei
String "Vishal Gupta" contains 4 and 7 consonants
String "My Company name is Axis Bank" contains 8 and 15 consonants

Process finished with exit code 0
```