Java Assignment

1.
```
package stringPackage;

public class StringClass {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str="Hello";
		System.out.print("Length of string = "+str.length());
	}

}
```

```
Length of string = 5
```

2.
```
package stringPackage;

public class StringClass {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str1="Hello";
		String str2="Welcome";

		System.out.print("Concatenation of string = "
		+str1.concat(str2));
	}

}
```

```
Concatenation of string = HelloWelcome
```

3.
```
package stringPackage;

public class StringClass {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		String str2="Wel come";

		System.out.print("Space removal of string = "
		+str2.replaceAll("\\s", ""));
	}

}
```

```
Space removal of string = Welcome
```

4.
```
package stringPackage;

public class StringClass {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
```

```
		String str1="Hello";

		for(int i=0;i<str1.length();i++)
		{
			int count=1;
			for(int j=i+1;j<str1.length();j++)
			{
				if(str1.charAt(i)==str1.charAt(j))
				{
					count++;
				}
			}
			if(count>1)
			{
				System.out.println(str1.charAt(i)+"occurs"+count
						+"times");
			}


		}

	}

}
```

loccurs2times

```
5. package stringPackage;
import java.util.*;
public class StringClass2 {
	static void isAnagram(String str1, String str2) {
	  String s1 = str1.replaceAll("\\s", "");
	  String s2 = str2.replaceAll("\\s", "");
	  boolean status = true;
	  if (s1.length() != s2.length()) {
	      status = false;
	  } else {
	      char[] ArrayS1 = s1.toLowerCase().toCharArray();
	      char[] ArrayS2 = s2.toLowerCase().toCharArray();
	      Arrays.sort(ArrayS1);
	      Arrays.sort(ArrayS2);
	      status = Arrays.equals(ArrayS1, ArrayS2);
	  }
	  if (status) {
	      System.out.println(s1 + " and " + s2 + " are anagrams");
	  } else {
	      System.out.println(s1 + " and " + s2 + " are not anagrams");
	  }
	}

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		 isAnagram("keeper", "peeker");
	}

}
keeper and peeker are anagrams
```

6.
```java
package stringPackage;

public class StringClass {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str1="Hello";
		String str2="Wel come";
		String str3;

		str3=str1.replaceAll("[aeiouAEIOU]", "");
		System.out.println(str3);

	}

}
```

```
Hll
```

7.
```java
package stringPackage;

public class StringClass {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str1="Hello";
		String str2="Wel come";
		String str3="Hello";

		if(str1.equals(str3))
		{
			System.out.println("Equal");
		}
		else
		{
			System.out.println("Not Equal");
		}
	}

}
```

```
Equal
```

8.
```java
package stringPackage;

public class StringClass {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str1="Hello and welcome";
		String str2="Wel come";
		String str3;

		System.out.println("Before removing and "+str1);
		str3=str1.replaceAll("and", "");
		System.out.println("After removing and "+str3);
```

```
	}

}
```

```
Before removing and Hello and welcome
After removing and Hello  welcome
```

```
9. package stringPackage;
import java.util.*;
public class StringClass2 {
	 static int countofwords(String string)
     {
       int count=0;

         char ch[]= new char[string.length()];
         for(int i=0;i<string.length();i++)
         {
             ch[i]= string.charAt(i);
             if( ((i>0)&&(ch[i]!=' ')&&(ch[i-1]==' ')) || ((ch[0]!=' ')&&(i==0)) )
                 count++;
         }
         return count;
     }

       public static void main(String[] args) {
             // TODO Auto-generated method stub

             String str ="    Hello Welcome";
         System.out.println(countofwords(str) + " words");
       }

}
```

```
2 words
```

```
10. package stringPackage;
import java.util.*;
public class StringClass2 {

       public static void main(String[] args) {
             // TODO Auto-generated method stub

             String s[] = "Hello Welcome".split(" ");
             String ans = "";
            for (int i = s.length - 1; i >= 0; i--) {
              ans += s[i] + " ";
            }
            System.out.println("Reversed String = " + ans);
       }

}
```

```
Reversed String = Welcome Hello
```

```
11. package stringPackage;
```

```java
import java.util.*;
import java.text.SimpleDateFormat;

public class StringClass2 {

	public static void main(String[] args)throws Exception {
		// TODO Auto-generated method stub

		String sDate1="31/12/1998";
	    Date date1=new SimpleDateFormat("dd/MM/yyyy").parse(sDate1);
	    System.out.println(sDate1+"\t"+date1);
	}

}
```

```
31/12/1998	Thu Dec 31 00:00:00 IST 1998
```

15.
```java
package stringPackage;

public class StringClass3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str = "hello welcome";

		String[] tokens = str.split("\\s");
		str = "";

		for(int i = 0; i < tokens.length; i++){
		    char capLetter = Character.toUpperCase(
		            tokens[i].charAt(0));
		    str +=  " " + capLetter + tokens[i].substring(1);
		}
		str = str.trim();
		System.out.println(str);

	}

}
```

```
Hello Welcome
```

16.
```java
package stringPackage;

public class StringClass3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str = "hello welcome";

		for (int i = 0; i < str.length(); i++) {
		     System.out.print(str.charAt(i));
		  }

	}
```

```
}
```

```
hello welcome
```

17.
```
package stringPackage;

public class StringClass3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str = "hello welcome";

		if(str.contains("llo"))
		{
			System.out.print("Substring present");
		}
		else
		{
			System.out.print("Not present");
		}


	}

}
```

```
Substring present
```

18.
```
package stringPackage;

public class StringClass3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str = "hello welcome";

		System.out.print("Character at index 0="+str.charAt(0));

	}

}
```

```
Character at index 0=h
```

19.
```
package stringPackage;

public class StringClass3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str = "hello";

		System.out.println("Before replacing = "+str);
		System.out.print("Replace character at index 0="
		+str.replace(str.charAt(1),'i'));

	}
```

```
}
```

```
Before replacing = hello
Replace character at index 0=hillo
```

```
20. package stringPackage;

public class StringClass3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str = "hello";

		char[] chararray=str.toCharArray();
		System.out.println("Reverse string");
		for(int i=chararray.length-1;i>=00;i--)
		{
			System.out.print(chararray[i]);
		}

	}

}
```

```
Reverse string
olleh
```

```
21. package JavaPackage1;
import java.util.*;
public class Class6 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the string");
		String str=sc.next();
		System.out.println("Original string = "+str);
		char str1[]=str.toCharArray();
		Arrays.sort(str1);
		String sorted=new String(str1);
		System.out.println("Sorted string = "+sorted);

	}

}
```

```
Enter the string
welcome
Original string = welcome
Sorted string = ceelmow
```

```
23. package stringPackage;

public class StringClass3 {
```

```
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str = "Hello Welcome";

		System.out.println("Original string = "+str);
		String s[] = str.split(" ");
		String ans = "";
		for (int i = 0;i<=s.length - 1;i++) {
		  ans += s[i].charAt(0);
		}
		System.out.println("Output = " + ans);


	}

}
```

```
Original string = Hello Welcome
Output = HW
```

```
24. package stringPackage;

public class StringClass3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		String s = "00Hello";
		System.out.println("String before removal of zeros = "+s);
		s = s.replaceFirst ("^0*", "");
		System.out.print("String after removal of zeros = "+s);


	}

}
```

```
String before removal of zeros = 00Hello
String after removal of zeros = Hello
```

```
25. package stringPackage;

public class StringClass3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

		String str1="Program";
		String str2="program";
		int n;
		n=str1.compareTo(str2);
		if(n==0)
			System.out.println("Strings are equal");
		else if(n>0)
			System.out.println("First string is greater");
		else
```

```
                    System.out.println("Second string is greater");

        }

}
```

```
Second string is greater
```

27.

```
package stringPackage;

public class StringClass3 {

        public static String insertString(
                String original,
                String inserted,
                int index)
            {

                // Create a new string
                String newstring = original.substring(0, index + 1)
                                   + inserted
                                   + original.substring(index + 1);

                // return the modified String
                return newstring;
            }

        public static void main(String[] args) {
              // TODO Auto-generated method stub

              String original = "HelloWelcome";
         String inserted = "and";
         int index = 4;

         System.out.println("Original String: "
                            + original);
         System.out.println("String to be inserted: "
                            + inserted);
         //System.out.println("String to be inserted at index: "
         //                   + index);

         // Insert the String
         System.out.println("New String: "
                            + insertString(original,
                                           inserted,
                                           index));


        }

}
```

```
Original String: HelloWelcome
String to be inserted: and
New String: HelloandWelcome
```

28.
```java
package stringPackage;

public class StringClass3 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		String str = "Hello Welcome";
		String s[] = str.split(" ");
		for (int i = 0;i<=s.length - 1;i++)
		{
			System.out.println(s[i]);
		}


	}

}
```

```
Hello
Welcome
```