

JAVA-Week 8

Objective: Implement the concepts of Keyboard input and string handling in Java.

Assignments:

1. Write a Java program for calculating Factorial. Number should be taken through user input (Using Scanner, BufferedReader both).

```
package Week7;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Scanner;

public class Factorial_Three_Exception {

    static void fact(int n)
    {
        int z=n;
        int fact=1;
        while(n>1)
        {
            fact*=n;
            n--;
        }
        System.out.println("Factorial of "+z+" = "+fact);
    }

    public static void main(String args[]) throws IOException
    {
        Scanner sc=new Scanner(System.in);
        String str=sc.next();
        int n=Integer.parseInt(str);
        fact(n);
        InputStreamReader r=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(r);
        str=br.readLine();
        n=Integer.parseInt(str);
        fact(n);
    }
}
```

```
Factorial of 5 = 120
10
Factorial of 10 = 3628800
```

2. Design a palindrome class that will input a string from console and check whether the string is palindrome or not.

```
package Week8;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Scanner;

public class Palindrome String {
    static void palindrome(String str)
    {
        int i=0;
        int j=str.length();
        j--;
        int flag=0;
        while(i!=j)
        {
            if(str.charAt(i++)!=str.charAt(j--))
            {
                flag=1;
                break;
            }
        }
        if(flag==0)
            System.out.print("Palindrome");
        else
            System.out.print("Not Palindrome");
    }

    public static void main(String args[]) throws IOException
    {
        Scanner sc=new Scanner(System.in);
        String str=sc.next();
        palindrome(str);
    }
}
```

```
UEM
Not Palindrome
```

UEMEU
Palindrome

3. Write a Java program to merge two strings.

```
package Week8;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Scanner;

public class Merge_String {

    public static void main(String args[]) throws IOException
    {
        String s1="UEMK";
        String s2="CSE";
        String s3=s1.concat(s2);
        System.out.print("Merged String :"+s3);

    }
}
Merged String :UEMKCSE
```

4. Write a Java program for reverse a string. (String will be taken as user input through console).

```
package Week8;

import java.util.Scanner;

public class Reverse_String {
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        String s=sc.next();
        StringBuffer str=new StringBuffer(s);
        System.out.println(str.reverse());

    }
}
```

5. Write a Java Program to Concatenate Two Strings.

```
package Week8;

import java.io.BufferedReader;
```

```

import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Scanner;

public class Concat String {

    public static void main(String args[]) throws
IOException
    {
        String s1="UEMK";
        String s2="CSE";
        String s3=s1.concat(s2);
        System.out.print("Concatated String :"+s3);

    }
}
Concatated String :UEMKCSE

```

6. Write a Java Program to check if a Given String is getChar from Specific Index.

package Week8;

```

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Scanner;

public class CharAt String {

    public static void main(String args[]) throws
IOException
    {
        String s1="UEMK";

        System.out.print("Char at 1st
pos:"+s1.charAt(0));

    }
}
Char at 1st pos:U

```

7. Write a Java Program to Find the Length of the String.

package Week8;

```

public class Length String {

```

```

        public static void main(String args[]) throws
        IOException
        {
            String s1="UEMK";

            System.out.print("Length :"+s1.length());
        }
    }
    Length :4

```

8. Write a Java Program to Find All Possible Subsets of given Length in String.

```
package Week8;
```

```

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Scanner;

public class Length String {

    public static void main(String args[]) throws
    IOException
    {
        String s1="UEMK";
        int c=0;
        for(int i=0;i<s1.length()-1;i++)
        {
            for(int j=i+1;j<s1.length();j++)
            {
                System.out.print("Subset "+c+" : ");
                System.out.println(s1.substring(i,j));
                c++;
            }
        }
    }
}

Subset 0 : U
Subset 1 : UE
Subset 2 : UEM
Subset 3 : E
Subset 4 : EM
Subset 5 : M

```

9. Write a Java Program to Remove the White Spaces from a String.

```
package Week8;

import java.io.IOException;

public class Trim_String {

    public static void main(String args[]) throws IOException
    {
        String s1="          UEMK_CSE          ";
        System.out.print(s1.trim());

    }
}
UEMK_CSE
```

10. Write a Java Program to Compare two Strings.

```
package Week8;

import java.io.IOException;

public class Compare_String {

    public static void main(String args[]) throws IOException
    {
        String s1="UEMK";
        String s2="UEMJ";
        System.out.print("Diffrence :"+s1.compareTo(s2));

    }
}
Diffrence :1
```

11. Write a Java Program to Compare Performance of Two Strings.

```
package Week8;

import java.io.IOException;

public class Compare_String {

    public static void main(String args[]) throws IOException
    {
        String s1="UEMK";
        String s2="UEMJ";
        if(s1.compareTo(s2)<0)
```

```

        System.out.print("S2>S1");
    else if(s1.compareTo(s2)>0)
        System.out.print("S2<S1");
    else
        System.out.print("S2=S1");
    }
}
S2<S1

```

12. Write a Java Program to Use Equals Method In a String Class.

```

package Week8;

import java.io.IOException;

public class Equals_String {

    public static void main(String args[]) throws IOException
    {
        String s1="UEMK";
        String s2="UEMJ";
        if(s1.equals(s2))
            System.out.print("S2==S1");
        else
            System.out.print("S2!=S1");
    }
}
S2!=S1

```

13. Write a Java Program to Use EqualsIgnoreCase Method In a String Class.

```

package Week8;

import java.io.IOException;

public class Equals_Ignore_String {

    public static void main(String args[]) throws IOException
    {
        String s1="UEMK";
        String s2="uemk";
        if(s1.equalsIgnoreCase(s2))
            System.out.print("S2==S1");
        else
            System.out.print("S2!=S1");
    }
}

```

```
}  
S2==S1
```

14. Write a Java Program to Use compareTo Method In a String Class.

```
package Week8;  
  
import java.io.IOException;  
  
public class Compare_String {  
  
    public static void main(String args[]) throws IOException  
    {  
        String s1=new String("UEMK");  
        String s2=new String("UEMJ");  
        if(s1.compareTo(s2)<0)  
            System.out.print("S2>S1");  
        else if(s1.compareTo(s2)>0)  
            System.out.print("S2<S1");  
        else  
            System.out.print("S2=S1");  
    }  
}  
S2<S1
```

15. With a Java Program to Use compareToIgnoreCase Method In a String Class.

```
package Week8;  
  
import java.io.IOException;  
  
public class Compare_Ignore_String {  
  
    public static void main(String args[]) throws IOException  
    {  
        String s1=new String("UEMK");  
        String s2=new String("uemk");  
        if(s1.compareToIgnoreCase(s2)<0)  
            System.out.print("S2>S1");  
        else if(s1.compareToIgnoreCase(s2)>0)  
            System.out.print("S2<S1");  
        else  
            System.out.print("S2=S1");  
    }  
}  
S2=S1
```


16. Write a Java Program to Replace Character or String.

```
package Week8;

import java.io.IOException;

public class Replace_String {

    public static void main(String args[]) throws IOException
    {
        String s1=new String("UEMK");
        StringBuffer s2=new StringBuffer(s1);
        s2.replace(3,4,"J");
        System.out.print("UEMK->" +s2);
    }
}
UEMK->UEMJ
```

17. Write a Java Program to Search Last Occurance of a Substring Inside a Substring.

```
package Week8;

public class Last_Occurence_String {

    public static void main(String args[])
    {
        String s1="UEMK UEMJ";
        String s="UEM";
        int lastIndex = s1.lastIndexOf(s);

        if(lastIndex == - 1){
            System.out.println("UEM not found");
        } else {
            System.out.println("Last occurrence of
UEM is at index " + lastIndex);
        }
    }
}
Last occurrence of UEM is at index 5
```

18. Write a Java Program to Remove a Particular Character from a String.

```
package Week8;

public class Remove_String {

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

```

        {
            StringBuffer s=new StringBuffer("UEMK");
            s.deleteCharAt(3);
            System.out.print(s);
        }
    }
    UEM

```

19. Write a Java Program to Replace a Substring Inside a String by Another One.

```

package Week8;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Scanner;

public class Replace_Substring_String {

    public static void main(String args[]) throws IOException
    {
        String s="UEMK";
        StringBuffer s2=new StringBuffer("UEMK");
        s2.replace(1,3,s);
        System.out.print(s2);
    }
}
UUEMKK

```

20. Write a Java Program to Reverse a String.

```

package Week8;

import java.util.Scanner;

public class Reverse_String {
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        String s=sc.next();
        StringBuffer str=new StringBuffer(s);
        System.out.println(str.reverse());
    }
}
UEMK
KMEU

```

21. Write a Java Program to Search a Word Inside a String.

```
package Week8;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Scanner;

public class Search String {

    public static void main(String args[]) throws IOException
    {
        String s="UEMK ";
        if(s.contains("UEM"))
            System.out.print("Found");
        else
            System.out.print("Not-Found");
    }
}
Found
```

22. Write a Java Program to Split a String into a Number of Substrings.

```
package Week8;

public class Split_String {

    public static void main(String args[])
    {
        String s1="UEMK UEMJ";
        String s[]=s1.split(" ");
        for(int i=0;i<s.length;i++)
            System.out.println(s[i]);
    }
}
UEMK
UEMJ
```

23. Write a Java Program to Search a Particular Word in a String.

```
package Week8;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Scanner;
```

```

public class Search String {

    public static void main(String args[]) throws IOException
    {
        String s="UEMK UEMJ IEM";
        if(s.contains("IEM"))
            System.out.print("Found");
        else
            System.out.print("Not-Found");
    }
}
Found

```

24. Write a Java Program to Replace All Occurings of a String.

```

package Week8;

import java.util.Scanner;

public class Replace_Oc_String {
    public static void main(String args[])
    {
        String s1="C Python CPP Python Javascript";
        String s2=s1.replaceAll("Python","Java");
        System.out.print(s2);
    }
}
C Java CPP Java Javascript

```

25. Write a Java Program to Make First Character of Each Word in Uppercase.

```

package Week8;

import java.util.Scanner;

public class Upper_String {

    public static void main(String args[])
    {
        String s="uemk uemj iem";
        String s1[]=s.split(" ");
        for(int i=0;i<s1.length;i++)
        {

            System.out.println(Character.toUpperCase(s1[i].charAt(0))+s
1[i].substring(1));
        }
    }
}

```

```
    }  
}  
Uemk  
Uemj  
Iem
```

26. Write a Java Program to Delete All Repeated Words in String.

```
package Week8;
```

```
import java.util.Scanner;
```

```
public class Delete_String {
```

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

```
    {
```

```
        String input="C JAVA JAVA JAVA PYTHON PYTHON CPP CPP";
```

```
        String[] words=input.split(" ");
```

```
        for(int i=0;i<words.length;i++)
```

```
        {
```

```
            if(words[i]!=null)
```

```
            {
```

```
                for(int j=i+1;j<words.length;j++)
```

```
                {
```

```
                    if(words[i].equals(words[j]))
```

```
                    {
```

```
                        words[j]=null;
```

```
                    }
```

```
                }
```

```
            }
```

```
        }
```

```
        for(int k=0;k<words.length;k++)
```

```
        {
```

```
            if(words[k]!=null)
```

```
            {
```

```
                System.out.println(words[k]);
```

```
            }
```

```
        }
```

```
    }
```

```
}  
C  
JAVA  
PYTHON  
CPP
```

27. Write a Java Program to Reverse the String Using Both Recursion and Iteration.

```
package Week8;
```

```
public class Reverese_String {

    static void reverse(String str)
    {
        if ((str==null)|| (str.length() <= 1))
            System.out.println(str);
        else
        {
            System.out.print(str.charAt(str.length()-1));
            reverse(str.substring(0,str.length()-1));
        }
    }

    public static void main(String args[])
    {

        StringBuffer s=new StringBuffer("JAVA");

        StringBuffer s1=new StringBuffer();

        int i=s.length()-1;
        while(i>=0)
        {
            s1.append(s.charAt(i));
            i--;
        }

        System.out.println("Iteration:"+s1);
        System.out.print("Recursion:");

        reverse("JAVA");
    }
}

Iteration:AVAJ
Recursion:AVAJ
```

28. Write a Java Program to Convert a String Totally into Upper Case.

```
package Week8;
```

```
public class All_Upper_String {

    public static void main(String args[])
    {
        String s="uemk uemj iem";
        System.out.println(s.toUpperCase());
    }
}
UEMK UEMJ IEM
```

29. Write a Java Program to Remove all Characters in Second String which are Present in First String.

```
package Week8;
```

```
import java.util.Scanner;
```

```
public class Delete_Next_String {

    public static void main(String args[])
    {

        StringBuffer s=new StringBuffer("JV");
        StringBuffer s1=new
StringBuffer("CJAVAJAVAJPYTHON");
        StringBuffer s2=new StringBuffer();
        for(int i=0;i<s.length();i++)
        {
            for(int j=0;j<s1.length();j++)
            {
                if(s.charAt(i)==s1.charAt(j))
                {
                    s1.deleteCharAt(j);
                }
            }
        }
        System.out.print(s1);
    }
}
CAAAAAPYTHON
```

30. Write a Java Program to Find the Consecutive Occurrence of any Vowel in a String.

```
package Week8;
```

```
public class Cons_Vowel_String {

    static Boolean isVowel(char c){

        if(c == 'a' || c == 'e' || c == 'i' || c=='o' ||
c=='u')

            return true;
        return false;
    }
    public static void main(String args[])
    {

        String s1="aebbbbbiobbbbuobbb";

        char[] s = s1.toCharArray();

        for(int i=0;i<s.length-1;i++){

            if(isVowel(s[i]) && isVowel(s[i+1])){

                System.out.println("The Consecutive vowels are : "+
s[i] + " and " + s[i+1]);

            }

        }

    }
}

The Consecutive vowels are : a and e
The Consecutive vowels are : i and o
The Consecutive vowels are : u and o
```

31. Write a Java Program to Find the Largest & Smallest Word in a String.

```
package Week8;
```

```
public class Largest Smallest String {

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



```

{
    String s1="UEMK IEM TECHNO";

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

    int max=s[0].length();
    int min=s[0].length();
    int l=0, sm=0;

    for(int i=1; i<s.length; i++)
    {
        if(s[i].length()>max)
        {
            max=s[i].length();
            l=i;
        }
        if(s[i].length()<min)
        {
            min=s[i].length();
            sm=i;
        }
    }
    System.out.print("Largest:"+s[l]+" Smallest:"+s[sm]);
}
}
Largest:TECHNO Smallest:IEM

```

32. Write a Java Program to Find First and Last Occurrence of Given Character in a String.

```

package Week8;

public class First_Last_String {
    public static void main(String args[])
    {
        String s1="JAVA";
        char a='A';

        int f=0, l=0;
        for(int i=0; i<s1.length(); i++)
        {
            if(a==s1.charAt(i))
            {
                if(f==0)
                    f=i;
                l=i;
            }
        }
    }
}

```

```

    }
    }
    System.out.print("First Occurrence : "+(f+1)+" Last
Occurrence : "+(l+1));
    }
}
First Occurrence : 2 Last Occurrence : 4

```

33. Write a Java Program to Display the Characters in Prime Position a Given String.

```
package Week8;
```

```

public class Prime_String {

    public static boolean isPrime(int n)
    {
        int a;
        for(int i=2;i<=n/2;i++)
        {
            if(n%i==0)
                return false;
        }
        return true;
    }

    public static void main(String args[])
    {
        String s1="JAVA_C_PYTHON_JAVASCRIPT";

        int f=0,l=0;
        for(int i=0;i<s1.length();i++)
        {
            if(isPrime(i)==true)
            {
                System.out.println("Char :"+s1.charAt(i)+"
Posiotion:"+i);
            }
        }
    }
}
Char :J Posiotion:0
Char :A Posiotion:1
Char :V Posiotion:2
Char :A Posiotion:3
Char :C Posiotion:5
Char :P Posiotion:7

```

```
Char :O Posiotion:11
Char :_ Posiotion:13
Char :A Posiotion:17
Char :C Posiotion:19
Char :T Posiotion:23
```

34. Write a Java Program to Sort String Ignoring Whitespaces and Repeating Characters Only Once.

35. Write a Java Program to Count Replace First Occurrence of a String.

```
package Week8;

public class Count_Oc_String {

    public static void main(String args[] )
    {
        String input="C JAVA JAVA JAVA PYTHON PYTHON CPP CPP";

        String[] words=input.split(" ");
        int count=0;
        for(int i=0;i<words.length;i++)
        {
            if(words[i]!=null)
            {

                for(int j=i+1;j<words.length;j++)
                {

                    if(words[i].equals(words[j]))
                    {
                        count++;
                        words[j]=null;
                    }
                }
            }
        }
        for(int k=0;k<words.length;k++)
        {
            if(words[k]!=null)
            {
                System.out.println(words[k]);
            }
        }
        System.out.print("Count :"+count);
    }
}
```

```

    }
}
C
JAVA
PYTHON
CPP
Count :4

```

36. Write a Java Program to Know the Last Index of a Particular Word in a String.

```
package Week8;
```

```
public class Last_Index_String {

    public static void main(String args[] )
    {

        String input="C CPP JAVA PYTHON RUBY";
        int index=0;
        String key="JAVA";
        index=input.lastIndexOf(key);
        System.out.print("Last Index :"+index);

    }
}
Last Index :6

```

37. Write a Java Program to Access the Index of the Character or String.

```
package Week8;
```

```
public class Access_Index_String {

    public static void main(String args[] )
    {

        String input="ABCDEFGH";
        int index=0;
        int i=0;
        while (i++<input.length()-1)
        {
            index=input.lastIndexOf(input.charAt(i));
            System.out.println(input.charAt(i)+": Index
:"+index);
        }

    }
}

```

```
}  
B: Index :1  
C: Index :2  
D: Index :3  
E: Index :4  
F: Index :5  
G: Index :6  
H: Index :7
```

38. Write a Java Program to Access the Characters or the ASCII of the Character Available in the String

```
package Week8;  
  
public class ASCII_Access_String {  
  
    public static void main(String args[] )  
    {  
  
        String input="ABCDEFGH";  
        int index=0;  
        int i=0;  
        while(i++<input.length()-1)  
        {  
            index=input.charAt(i);  
            System.out.println(" ASCII :"+index);  
        }  
  
    }  
}  
  
ASCII : 66  
ASCII : 67  
ASCII : 68  
ASCII : 69  
ASCII : 70  
ASCII : 71  
ASCII : 72
```

39. Write a Java Program to Display the Character and the Corresponding Ascii Present in the String.

```
package Week8;
```

```
public class ASCII_Access_String {

    public static void main(String args[] )
    {

        String input="ABCDEFGH";
        int index=0;
        int i=0;
        while(i++<input.length()-1)
        {
            index=input.charAt(i);
            System.out.println(input.charAt(i)+": ASCII
: "+index);
        }

    }
}

B: ASCII : 66
C: ASCII : 67
D: ASCII : 68
E: ASCII : 69
F: ASCII : 70
G: ASCII : 71
H: ASCII : 72
```

40. Write a Java Program to Accept 2 String & Check Whether all Characters in First String is Present in Second String & Print.

```
package Week8;
```

```
import java.util.Scanner;
```

```
public class Check_Char_String {

    public static void main(String args[] )
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enert 1st String :");
        String str=sc.next();
```

```

        System.out.print("Enter 2nd String :");
        String str1=sc.next();

        for(int i=0;i<str.length();i++)
        {

            for(int j=0;j<str1.length();j++)
            {
                if(str.charAt(i)==str1.charAt(j))
                {
                    System.out.println(str.charAt(i)+"
found at string 2");
                    break;
                }
            }
        }
    }
}

Enter 1st String :python
Enter 2nd String :onthpy
p found at string 2
y found at string 2
t found at string 2
h found at string 2
o found at string 2
n found at string 2

```

41. Write a Java Program to Check whether a Given Character is Present in a String, Find Frequency & Position of Occurrence.

```
package Week8;
```

```
import java.util.Scanner;
```

```
public class Find_Char_String {
```

```

    public static void main(String args[] )
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter 1st String :");
        String str=sc.next();
        System.out.print("Enter the char:");
        char a=sc.next().charAt(0);
        int f=0;
        for(int i=0;i<str.length();i++)
        {
            if(str.charAt(i)==a)

```

```

        {
            System.out.println(a+" found in string
at "+i);
            f++;
        }
    }
    System.out.println("Freq: "+f);
}

```

```

}
Enert 1st String :JAVA
Ener the char:A
A found in string at 1
A found in string at 3
Freq: 2

```

42. Write a Java Program to Count the Number of Occurrence of Each Character Ignoring the Case of Alphabets & Display them.

```
package Week8;
```

```
import java.util.Scanner;
```

```
public class Occ_Char_String {
```

```

    public static void main(String args[] )
    {

        String str="JAVAJAVA";
        char x[]=str.toCharArray();
        for(int i=0;i<x.length;i++)
        {
            if(x[i] !='0')
            {
                int f=1;
                for(int j=i+1;j<x.length;j++)
                {
                    if(x[i]==x[j])
                    {
                        System.out.println("--"+x[i]+" found in
string at "+j);
                        f++;
                        x[j]='0';
                    }
                }
            }
        }
    }
}

```



```

        System.out.println("Occurrence of "+x[i]+" is
"+f);
    }
}

}

}

}
--J found in string at 4
Occurrence of J is 2
--A found in string at 3
--A found in string at 5
--A found in string at 7
Occurrence of A is 4
--V found in string at 6
Occurrence of V is 2

```

43. Write a Java Program to Give Shortest Sequence of Character Insertions and Deletions that Turn One String Into the Other.

```

package Week8;

class Min_Ins_Del_String {

    static int lcs(String str1, String str2,
                   int m, int n )
    {
        int L[][] = new int[m+1][n+1];
        int i, j;

        for (i = 0; i <= m; i++)
        {
            for (j = 0; j <= n; j++)
            {
                if (i == 0 || j == 0)
                    L[i][j] = 0;

                else if (str1.charAt(i-1) == str2.charAt(j-1))
                    L[i][j] = L[i-1][j-1] + 1;

                else
                    L[i][j] = Math.max(L[i-1][j],
                                       L[i][j-1]);
            }
        }
    }
}

```

```

    return L[m][n];
}
static void InsDel(String str1,
                    String str2)
{
    int m = str1.length();
    int n = str2.length();

    int len = lcs(str1, str2, m, n);

    System.out.println("Minimum number of "+
                       "deletions = ");
    System.out.println(m - len);

    System.out.println("Minimum number of "+
                       "insertions = ");
    System.out.println(n - len);
}

public static void main(String[] args)
{
    String str1 = new String("JAVA");
    String str2 = new String("VAJ");
    InsDel(str1, str2);
}
}
Minimum number of deletions =
2
Minimum number of insertions =
1

```

44. Write a Java Program to Check Whether Date is in Proper Format or Not.

```

package Week8;

public class Date_Valid_String {

    private static final java.text.SimpleDateFormat sdf =
        new java.text.SimpleDateFormat("yyyyMMdd");

    public static java.util.Date verifyInput(String input)
    {
        if (input != null) {
            try {
                java.util.Date ret = sdf.parse(input.trim());
                if (sdf.format(ret).equals(input.trim())) {
                    System.out.print("Yes--");
                }
            }
        }
    }
}

```

```

        return ret;
    }
    } catch (Exception e) {
        System.out.print("NO");
    }
}
return null;
}

public static void main(String[] args) {
    String[] dates = new String[] { "20141031",
        "20130228", "20000229", "20000230" };
    for (String str : dates) {
        System.out.println(verifyInput(str));
    }
}

}
Yes--Fri Oct 31 00:00:00 IST 2014
Yes--Thu Feb 28 00:00:00 IST 2013
Yes--Tue Feb 29 00:00:00 IST 2000

```

45. Write a Java Program to Validate an Email Address Format.

```
package Week8;
```

```

public class Date_Valid_String {

    public static void main(String[] args) {
        String EMAIL_REGEX = "^[\\w-\\.]+*([\\w-
_\\.])?@([\\w]+\\.)+[\\w]+[\\w]$";
        String email1 = "uem@uemk.com";
        Boolean b = email1.matches(EMAIL_REGEX);
        System.out.println("email: "+email1+" :Valid = "
+ b);

        String email2 = "uem$$$uem.co.in";
        b = email2.matches(EMAIL_REGEX);
        System.out.println("email: "+email2+" :Valid = "
+ b);
    }
}

email: uem@uemk.com :Valid = true
email: uem$$$uem.co.in :Valid = false

```

46. Write a Java Program to Store String Literals Using String Buffer.

```
package Week8;
```

```
public class Email_String {
```

```

        public static void main(String[] args) {

            String str="JAVA";
            StringBuffer bfr=new StringBuffer(str);
            System.out.print(bfr);

        }
    }
}
JAVA

```

47. Write a Java Program to Verify a Class is StringBuffer Class Method.

```
package Week8;
```

```

public class Verify_Buffer_String {

    public static void main(String[] args) {

        String str="JAVA";
        StringBuffer bfr=new StringBuffer(str);
        bfr.delete(2,3);
        System.out.println("Deletion: "+bfr);
        bfr.insert(2, 'v');
        System.out.print("Insertion: "+bfr);

    }

}
Deletion: JAA
Insertion: JAvA

```

49. Write a Java Program to Count a Group of Words in a String.

```
package Week8;
```

```

public class Word_String {
    public static void main(String args[])
    {
        String s1="Python CPP Python Javascript";
        String arr[]=s1.split(" ");
        System.out.print("Group of words :"+arr.length);
    }
}
Group of words :4

```

50. Write a Java Program to Count Number of Words in a given Text or Sentence.

```
package Week8;
```

```

public class Word_String {
    public static void main(String args[])

```

```
{
    String s1="Python CPP Python Javascript Python CPP
Python Javascript Python CPP Python Javascript";
    String arr[]=s1.split(" ");
    System.out.print("Words :"+arr.length);
}
Words :12
```