

Dt : 21/9/2022

Case-4 : Creating object using 'java.lang.StringBuffer(CharSequence)'

syntax:

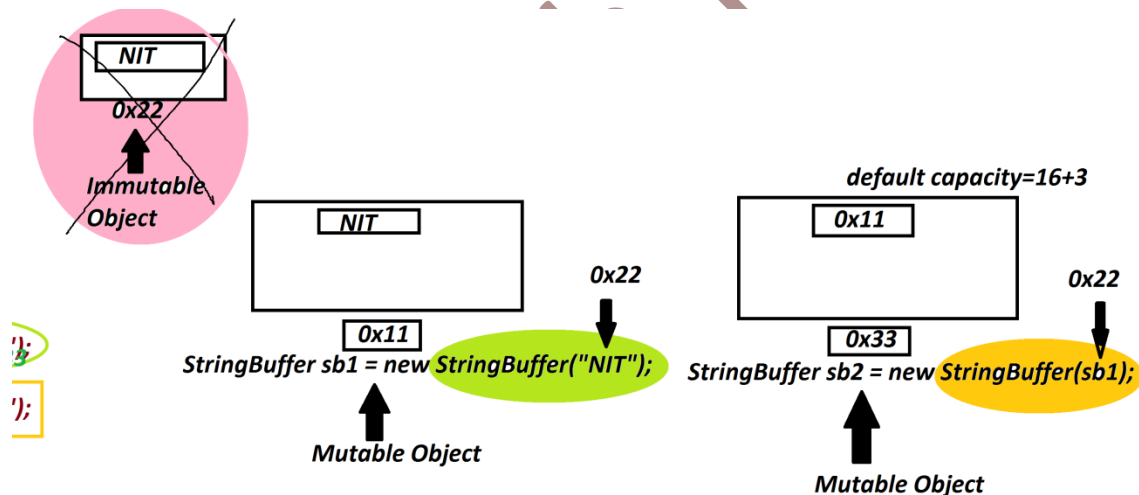
```
StringBuffer sb1 = new StringBuffer("NIT");
```

```
StringBuffer sb2 = new StringBuffer(sb1);
```

=>This syntax is used to interlink two StringBuffer objects, which means Object-sb2 is holding the reference of Object-sb1.

=>The default capacity of sb2 is equal to sum of "16 + length of String available in sb1".

Diagram:



Ex : DemoBuffer4.java

```
package maccess;  
public class DemoBuffer4 {  
    public static void main(String[] args) {  
        StringBuffer sb1 = new StringBuffer("NIT");  
        StringBuffer sb2 = new StringBuffer(sb1);  
    }  
}
```

```

        System.out.println("====Details of Buffer(sb2)====");
        System.out.println("data : "+sb2.toString());
        System.out.println("default capacity : "+sb2.capacity());
        System.out.println("length : "+sb2.length());
    }
}

```

o/p:

====Details of Buffer(sb2)====

data : NIT

default capacity : 19

length : 3

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Assignment-1:(Solution)

wap to check the given String is palindrome String or not,using

pre-defined method?

DemoString11.java

```

package maccess;
import java.util.*;
public class DemoString11 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the String:");
        String str1 = s.nextLine();
        StringBuffer sb = new StringBuffer(str1);
        sb.reverse();
        String str2 = new String(sb);
        if(str1.equals(str2)) {
            System.out.println("Palindrome String...");
        }else {
            System.out.println("Not-Palindrome String...");
        }
        s.close();
    }
}

```

}

o/p:

Enter the String:

program

Not-Palindrome String...

=====

Assignment-2:

wap to read a String and separate as follows:

buffer1 : vowels

buffer2 : Consonents

buffer3 : Numbers

buffer4 : others

DemoString12.java

```
package maccess;
import java.util.*;
public class DemoString12 {
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        StringBuffer sb1 = new StringBuffer();
        StringBuffer sb2 = new StringBuffer();
        StringBuffer sb3 = new StringBuffer();
        StringBuffer sb4 = new StringBuffer();
        System.out.println("Enter the String:");
        String str = s.nextLine();
        int len = str.length();
        for(int i=0;i<=len-1;i++)
        {
            char ch = str.charAt(i);
```

```

int k = (int)ch;
if((k>=65 && k<=90) || (k>=97 && k<=122))
{
    switch(ch)
    {
        case 'a':
        case 'A':
        case 'e':
        case 'E':
        case 'i':
        case 'I':
        case 'o':
        case 'O':
        case 'u':
        case 'U': sb1.append(ch+" ");
        break;
        default : sb2.append(ch+" ");
    }//end of switch
}
else if(k>=48 && k<=57)
{
    sb3.append(ch+" ");
}
else
{
    sb4.append(ch+" ");
}
} //end of loop
System.out.println("====details====");
System.out.println("Vowels      : "+sb1.toString());
System.out.println("Consonets   : "+sb2.toString());
System.out.println("Number      : "+sb3.toString());
System.out.println("Others      : "+sb4.toString());

s.close();
}
}

```

o/p:

Enter the String:

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====details====

Vowels : a a o u

Consonets : j v b y L T S p r d c t

Number : 1 8 2 0 2 2 9 9

Others : %

=====

Note:

=>StringBuffer class is 'synchronized class'

faq:

define synchronized class?

=>The class which is holding synchronized methods is known as Synchronized class.

faq:

define synchronized methods?

=>The methods which are declared with 'synchronized' keyword are known as synchronized methods.

faq:

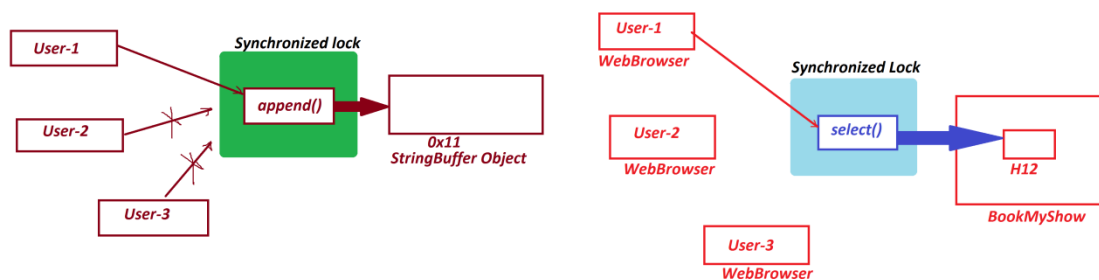
wt is the advantage of synchronized methods?

=>These synchronized methods will be under the lock and the methods are used by one user at-a-time.

Note:

=>StringBuffer is a thread-safe class and used in Server application development.

Diagram:



3.java.lang.StringBuilder class::

=>The Objects generated from 'StringBuilder' class are also Mutable objects.

=>The following are the constructors from StringBuilder:

```
public java.lang.StringBuilder();
```

```
public java.lang.StringBuilder(int);
```

```
public java.lang.StringBuilder(java.lang.String);
```

```
public java.lang.StringBuilder(java.lang.CharSequence);
```

=>StringBuilder having the same behaviour like StringBuffer.

=>StringBuilder is Non-synchronized class.

faq:

define Non-synchronized class?

=>The class which is holding Non-Synchronized methods is known as

Non-Synchronized class.

=>This StringBuilder class is used for StandAlone applications.

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Venkatesh Maipathii