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Dt: 20/9/2022
case-1: Creating object using 'java.lang.StringBuffer()'
syntax:
StringBuffer sb = new StringBuffer();
=>In this syntax the StringBuffer object is created with the default
capacity 16.
=>when the length crossed the capacity then the capacity increases
automatically by doubling the capacity and adding 2.
=>we perform the following important operations on StringBuffer
   append()
   insert()
   delete()
   reverse()
Ex: DemoBuffer1.java
package maccess;
import java.util.*;
public class DemoBuffer1 {
     public static void main(String[] args) {
         Scanner | new Scanner (System.in);
         StringBuffer sb = new StringBuffer();//Con Call
         System.out.println("====Details of Buffer====");
         System.out.println("default capacity:"+sb.capacity());
         System.out.println("length:"+sb.length());
         while(true) {
           System.out.println("====Choice====");
           System.out.println
            ("1.append()\n2.insert(int,String)"
"\n3.delete(int,int)\n4.reverse()\n5.exit");
           System.out.println("Enter the Choice:");
           int choice = Integer.parseInt(s.nextLine());
           switch(choice)
```

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case 1:
               System.out.println("Enter the data:");
               sb.append(s.nextLine());//Adding data to Buffer
               System.out.println("====Details of Buffer====");
               System.out.println("Buffer data :
"+sb.toString());
              System.out.println("capacity:"+sb.capacity());
              System.out.println("length:"+sb.length());
               break:
          case 2:
               if(sb.length()>0) {
                    System.out.println
                     ("Enter the index to perform inse
operation:");
                    int i1 = Integer.parseInt(s.nextLine());
                    if(i1<sb.length()) {</pre>
                          System.out.println("Enter the data:");
                          String dt = s.nextLine();
                          sb.insert(i1,dt); //inserting data by
index
                          System.out.println("====Details of
Buffer====");
                          System.out.println("Buffer data :
"+sb.toString());
                     }else {
                          System.out.println("Invalid index
value...");
                    System.out.println("StringBuffer is
                f(sb.length()>0) {
                    System.out.println("Enter the Starting
                    int sIndex = Integer.parseInt(s.nextLine());
                    if(sIndex>=0 && sIndex<sb.length()) {</pre>
                          System.out.println("Enter the ending
index:");
                          int eIndex =
Integer.parseInt(s.nextLine());
                          if(eIndex>sIndex && eIndex<sb.length())</pre>
{
                               sb.delete(sIndex, eIndex);
```

```
System.out.println("====Details of
Buffer====");
                            System.out.println("Buffer data :
"+sb.toString());
                        }else {
                            System.out.println("Invalid ending
Index...");
                   }else {
                        System.out.println("Invalid Start
index..");
              }else {
                   System.out.println("StringBuffe
empty...");
              break;
         case 4:
              if(sb.length()>0) {
                   sb.reverse();
                   System.out.println
Buffer====");
                   System.out.println("Buffer data :
"+sb.toString());
              }else {
                   System.out.println("StringBuffer is
empty...");
         case 5:
              System.out.println("Buffer operations
Stopped...");
              System.exit(0);//stop the program
         default:
              System.out.println("Invalid choice....");
            end of switch
          end of loop
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```

Assigment-1:

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

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pre-defined method?
Assignment-2:
wap to read a String and separate as follows:
buffer1 : vowels
buffer2 : Consonents
buffer3: Numbers
buffer4 : others
Ex:
i/P: java18 by 2022 99% LTS product
Vowels: a a o u
Consonents: j v b y L T S p r d o
Numbers: 18202299
others: %
Case-2: Creating object using 'java.lang.StringBuffer(int)'
syntax:
StringBuffer sb = new StringBuffer(4);
 =>In this syntax the StringBuffer object is created with the
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default capacity equal to the value passed as parameter while Object

creation process.

Ex: DemoBuffer2.java

```
package maccess;
public class DemoBuffer2 {
     public static void main(String[] args) {
         StringBuffer sb = new StringBuffer(4);//Con Call
         System.out.println("===Details of Buffer===");
         System.out.println("default capacity:"+sb.capacity());
         System.out.println("length:"+sb.length());
         sb.append("java");
         System.out.println("===Details of Buffer=
         System.out.println("data : "+sb.toString());
         System.out.println("capacity:"+sb.capacity());
         System.out.println("length:"+sb.length());
         sb.append("J");
         System.out.println("===Details of Buffer=
         System.out.println("data : "+sb, toString());
         System.out.println("capacity", "+sb.capacity());
         System.out.println("length:"+sh.length());
     }
}
o/p:
===Details of Buffer===
default capacity:4
length:0
===Details of Buffe
data : java
capacity:4
length:4
===Details of Buffer===
data : javaJ
capacity:10
```

length:6

===Details of Buffer===

data: NITHYD javalangua geprogram

capacity:46

length:25
