***Dt : 13/9/2022***

***Case-1 : Creating Object using 'java.lang.StringBuffer()'***

***syntax:***

***StringBuffer sb = new StringBuffer();***

***=>In this syntax StringBuffer object is created with the default***

***capacity 16.***

***=>when the length crosses the capacity 16 then the capacity***

***increases automatically by doubling the capacity and adding 2.***

***=>when the length crosses the capacity 34 then capacity increases***

***character by character.***

***=>we use append() method to add the data to the StringBuffer***

***objects.***

***=>we can perform insert,delete and reverse operations on***

***StringBuffer objects,becuase the objects are Mutable objects.***

***Ex : DemoBuffer1.java***

***package maccess;***

***import java.util.\*;***

***public class DemoBuffer1 {***

***public static void main(String[] args) {***

***Scanner s = new Scanner(System.in);***

***StringBuffer sb = new StringBuffer();//Con\_call***

***System.out.println("default capacity:"+sb.capacity());***

***System.out.println("length:"+sb.length());***

***System.out.println("Enter the data to be added to buffer:");***

***sb.append(s.nextLine());//Adding data to buffer***

***System.out.println("====buffer details===");***

***System.out.println("data : "+sb.toString());***

***System.out.println("capacity : "+sb.capacity());***

***System.out.println("length : "+sb.length());***

***System.out.println("====insert operation=====");***

***System.out.println***

***("Enter the index where the data to be inserted:");***

***int index = Integer.parseInt(s.nextLine());***

***if(index<sb.length())***

***{***

***System.out.println("Enter the data to be inserted:");***

***String dt = s.nextLine();***

***sb.insert(index,dt);***

***System.out.println("data : "+sb.toString());***

***}//end of if***

***else***

***{***

***System.out.println("Invalid index value...");***

***}***

***System.out.println("=====delete operation====");***

***System.out.println("Enter the starting index:");***

***int i1 = Integer.parseInt(s.nextLine());***

***if(i1<sb.length())***

***{***

***System.out.println("Enter the ending index:");***

***int i2 = Integer.parseInt(s.nextLine());***

***if(i2>i1 && i2<sb.length())***

***{***

***sb.delete(i1,i2);***

***System.out.println("data : "+sb.toString());***

***}//end of if***

***else***

***{***

***System.out.println("Invalid index...");***

***}***

***}//end of if***

***else***

***{***

***System.out.println("Invalid index...");***

***}***

***System.out.println("====reverse operation====");***

***sb.reverse();***

***System.out.println("data : "+sb.toString());;***

***s.close();***

***}***

***}***

***o/p:***

***default capacity:16***

***length:0***

***Enter the data to be added to buffer:***

***java programming***

***====buffer details===***

***data : java programming***

***capacity : 16***

***length : 16***

***====insert operation=====***

***Enter the index where the data to be inserted:***

***5***

***Enter the data to be inserted:***

***language***

***data : java language programming***

***=====delete operation====***

***Enter the starting index:***

***23***

***Enter the ending index:***

***56***

***Invalid index...***

***====reverse operation====***

***data : gnimmargorp egaugnal avaj***

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***Assignment-1 :***

***wap to read a String and append the following into Separate Buffer***

***objects?***

***StringBuffer ob1 - holds Vowels***

***StringBuffer ob2 - holds Consonents***

***StringBuffer ob3 - holds numbers***

***StringBuffer ob4 - Others***

***Assignment-2:***

***wap to read a String and check the String is apalindrome String or***

***not,using pre-defined reverse() method?***

***Assignment-3:***

***wap to read a String and reverse the words from the given String?***

***i/p:***

***java language programming***

***o/p:***

***avaj egaugnal gnimmargorp***

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***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***

***default capacity equal to the value which is passed as parameter***

***while object creation process.***

***=>when the length crosses the capacity then the capacity increases***

***automatically by doubling the capacity and adding 2.***

***Ex : DemoBuffer2.java***

***package maccess;***

***public class DemoBuffer2 {***

***public static void main(String[] args) {***

***StringBuffer sb = new StringBuffer(4);//Con\_call***

***System.out.println("default capacity:"+sb.capacity());***

***System.out.println("length:"+sb.length());***

***sb.append("java");***

***System.out.println("data : "+sb.toString());***

***System.out.println("capacity:"+sb.capacity());***

***System.out.println("length:"+sb.length());***

***sb.append("K");***

***System.out.println("data : "+sb.toString());***

***System.out.println("capacity:"+sb.capacity());***

***System.out.println("length:"+sb.length());***

***sb.append("NITHY");***

***System.out.println("data : "+sb.toString());***

***System.out.println("capacity:"+sb.capacity());***

***System.out.println("length:"+sb.length());***

***sb.append("Z");***

***System.out.println("data : "+sb.toString());***

***System.out.println("capacity:"+sb.capacity());***

***System.out.println("length:"+sb.length());***

***sb.append("java program");***

***System.out.println("data : "+sb.toString());***

***System.out.println("capacity:"+sb.capacity());***

***System.out.println("length:"+sb.length());***

***sb.append("java program java program");***

***System.out.println("data : "+sb.toString());***

***System.out.println("capacity:"+sb.capacity());***

***System.out.println("length:"+sb.length());***

***}***

***}***

***=============================================================***