**Assignments on Strings, StringBuffer, StringBuilder**

1.Write an application to determine the length of string str = "Hello World".(Hint: Use String method)

public class length {

    public static void main(String[] args) {

        String str = "Hello World";

int count = str.length();

System.out.println("The String has " +count +" characters");

 }

 }

Output:

The String has 11 characters

2.Write an application to join the two strings "Hello" & "How are you?" (Use String Methods)

class StringConcat{

 public static void main(String args[]){

   String s="Hello"+" How are you";

   System.out.println(s);

 }

}

Output:

Hello How are you

3. Given a String “Java String pool refers to collection of Strings which are stored in heap memory”. Perform the following operations (Hint : all operation can be performed using String methods)

1. Print the string to console in lowercase
2. Print the string to console in uppercase
3. Replace all ‘a’ character in the string with $ sign.
4. Check if the original String contains the word “collection”
5. Check if the following String “java string pool refers to collection of strings which are stored in heap memory” matches the original.
6. If the string does not match check if there is another method which can be used to check if the strings are equal.

Output:

public class JavaString{

public static void main(String []args)

{

String str =” Java String pool refers to collection of Strings which are stored in heap memory”;

String s1=str.toLowercase();

System.out.println(“String is : “+s1);

String s2=str.toUppercase();

System.out.println(“String is : ”+s2);

String s3=str.replace(‘a’,’$’);

System.out.println(“String is : “ +s3);

if(str.contains(“collection”))

{

System.out.println(“collection is present”);

}

else

{

System.out.println(“collection is not present”);

}

System.out.println(str.matches(“java string pool refers to collection of strings which are stored in heap memory”));

System.out.println(“Return value:”));

String str1=“java string pool refers to collection of strings which are stored in heap memory”;

System.out.println(str.equals(str1));

System.out.println(“Return value:”));

}

}

Output:

String is java string pool refers to collection of strings which are stored in heap memory

String is JAVA STRING POOL REFERS TO COLLECTION OF STRINGS WHICH ARE STORED IN HEAP MEMORY

String is J$v$ String pool refers to collection of Strings which $re stored in he$p memory

collection is present

false

false

4.Assignment on StringBuffer Class

1.Write an application to append the following strings “StringBuffer”, “Is a peer class of String”, “that provides much of”,”the functionality of strings” using a StringBuffer.

public class buffer{

public static void main (String[] args)

{

StringBuffer sb =new StringBuffer(“StringBuffer”);

sb.append(“ Is a peer class of String ”);

sb.append(“ that provides much of ”);

sb.append(“ the functionality of strings ”);

System.out.println(“Buffer strings are ”+sb);

}

}

Output: Buffer strings are StringBuffer Is a peer class of String that provides much of the functionality of strings

2. Insert the following string “Insert text” into the string “it is used to\_at the specified index position” at the location denoted by the sign\_

public class buffer1{

public static void main (String[] args)

{

StringBuffer sb=new StringBuffer(“it is used to at the specified index position”);

sb.insert(14,”index text”);

System.out.println(sb);

}

}

Output: it is used to index text at the specified index position.

3. Reverse the following string “This method is used to return the reverse object on which it was called” using StringBuilder class.

public class buffer2{

{

public static void main(String[] args)

{

|  |
| --- |
|  |
|  |
|  | StringBuffer sb=new StringBuffer("This method is used to return the reverse object on which it was called"); |
|  | sb.reverse(); |
|  | System.out.println(sb); |
|  | } |
|  |  |
|  | }  Output:  dellac saw ti hcihw no tcejbo esrever eht nruter ot desu si dohtem sihT  5. StringBuilder    Provide assignments for “Stringbuilder class” uding “StringBuffer”  1.Write an application to append the following strings “StringBuffer”, “Is a peer class of String”, “that provides much of”,”the functionality of strings” using a StringBuffer.  public class buffer{  public static void main (String[] args)  {  StringBuilder sb =new StringBuilder(“StringBuffer”);  sb.append(“ Is a peer class of String ”);  sb.append(“ that provides much of ”);  sb.append(“ the functionality of strings ”);  System.out.println(“Builder strings are ”+sb);  }  }  Output: Builder strings are StringBuffer Is a peer class of String that provides much of the functionality of strings  2. Insert the following string “Insert text” into the string “it is used to\_at the specified index position” at the location denoted by the sign\_  public class buffer1{  public static void main (String[] args)  {  StringBuilder sb=new StringBuilder(“it is used to at the specified index position”);  sb.insert(14,”index text”);  System.out.println(sb);  }  }  Output: it is used to index text at the specified index position.  3. Reverse the following string “This method is used to return the reverse object on which it was called” using StringBuilder class.  public class buffer2{  {  public static void main(String[] args)  {   |  | | --- | |  | |  | |  | StringBuilder sb=new StringBuilder("This method is used to return the reverse object on which it was called"); | |  | sb.reverse(); | |  | System.out.println(sb); | |  | } |   }  Output: dellac saw ti hcihw no tcejbo esrever eht nruter ot desu si dohtem sihT   |  | | --- | |  | |  | |  |  |  | | --- | |  | |  | |
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