**Java core assignment 3 – Strings, Buffer and builders**

**Tanaya Jadhav**

**Strings Assignments**

**1)** public class Stringsdemo {  
 public static void main(String args[]){  
 String str = "Hello World";  
 System.*out*.println(str.length());  
  
 }  
 }

**Output:-**

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=63202:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

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Process finished with exit code 0

2)

public class Stringsdemo {  
 public static void main(String args[]){  
 String str = "Hello...";  
 String str1 = "How are you?";  
 System.*out*.println(str.concat(str1));  
  
 }  
 }

Output:-

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=51160:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

Hello...How are you?

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3)

i)to lower case

public class Stringsdemo {  
 public static void main(String args[]){  
 String str = "Java String Pool refers to Collection of strings which are stored in heap memory";  
 System.*out*.println(str.toLowerCase());  
  
 }  
 }

Output:= "C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=61430:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

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

Process finished with exit code 0

ii) public class Stringsdemo {  
 public static void main(String args[]){  
 String str = "Java String Pool refers to Collection of strings which are stored in heap memory";  
 System.*out*.println(str.toUpperCase());  
  
 }  
 }

Output:-

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=57768:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

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

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iii)

public class Stringsdemo {  
 public static void main(String args[]){  
 String str = "Java String Pool refers to Collection of strings which are stored in heap memory";  
 String rep=str.replace("a","$");  
 System.*out*.println(rep);  
 }  
 }

output:

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=55169:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

J$v$ String Pool refers to Collection of strings which $re stored in he$p memory

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iv)

public class Stringsdemo {  
 public static void main(String args[]) {  
 String str = "Java String Pool refers to Collection of strings which are stored in heap memory";  
 if (str.contains("Collection")) {  
 System.*out*.println("Collection found in original string");  
 } else {  
 System.*out*.println("not found");  
 }  
 }  
}

output:-

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=54259:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

Collection found in original string

Process finished with exit code 0

v)

public class Stringsdemo {  
 public static void main(String args[]) {  
 String str = "Java String Pool refers to Collection of strings which are stored in heap memory";  
 String substring = "Java String Pool refers to Collection of strings which are stored in heap memory";  
  
 if (str.contains(substring)) {  
 System.*out*.println("string matches original string");  
 } else {  
 System.*out*.println("not matches");  
 }  
 }  
}

output:-

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=54611:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

string matches original string

Process finished with exit code 0

**StringBuffer Assignments**

1) public class Stringsdemo {  
 public static void main(String args[]) {  
 StringBuffer sb = new StringBuffer("stringBuffer");  
 sb.append(" is a peer class of string");  
 sb.append(" that provide functionality");  
 System.*out*.println(sb);  
  
  
  
 }  
 }

Output:

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=50541:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

stringBuffer is a peer class of string that provide functionality

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2) public class Stringsdemo {  
 public static void main(String args[]) {  
 StringBuffer sb = new StringBuffer("it is used to at specific position");  
  
 sb.insert(14,"insert text");  
 System.*out*.println(sb);  
  
  
  
 }  
 }

Output:-

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=51785:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

it is used to insert text at specific position

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3) public class Stringsdemo {  
 public static void main(String args[]) {  
 StringBuffer sb = new StringBuffer("This method reverse the object which was called");  
  
 sb.reverse();  
 System.*out*.println(sb);  
  
  
  
 }  
 }

Output:

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=52456:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

dellac saw hcihw tcejbo eht esrever dohtem sihT

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**StringBuilder Assignments**

1) public class Stringsdemo {  
 public static void main(String args[]) {  
 StringBuilder sb = new StringBuilder("This method reverse the object which was called");  
  
 sb.reverse();  
 System.*out*.println(sb);  
  
  
  
 }  
 }

Output:-

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=63410:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

dellac saw hcihw tcejbo eht esrever dohtem sihT

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2) public class Stringsdemo {  
 public static void main(String args[]) {  
 StringBuilder sb = new StringBuilder(" this method reverse the object which was called");  
 sb.insert(1,"Tanaya");  
 System.*out*.println(sb);  
  
  
  
 }  
 }

Output:=

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=63422:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

Tanaya this method reverse the object which was called

Process finished with exit code 0

3) public class Stringsdemo {  
 public static void main(String args[]) {  
 StringBuilder sb = new StringBuilder(" this method reverse the object which was called");  
 sb.append(" Tanaya understood?");  
 System.*out*.println(sb);  
  
  
  
 }  
 }

Output:-

"C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\lib\idea\_rt.jar=63427:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\Tanaya\IdeaProjects\Corejava\out\production\Corejava Stringsdemo

this method reverse the object which was called Tanaya understood?

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