CSE1007 LAB ASSESSMENT-4

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1. Read a string from the user and display the all possible prefixes and suffixes using two threads

```
import java.util.*;
class Suffix extends Thread {
   Suffix() {
       char[] chr = str.toCharArray();
       System.out.println("Printing the suffix:");
                System.out.print(chr[k]);
           System.out.println();
           Thread.sleep(500);
           System.out.println(e);
```

```
Prefix() {
        System.out.println("Enter a String: ");
       String s = sc.nextLine();
       sc.close();
       int length= s.length();
       char [] a=s.toCharArray();
   System.out.println("\nPrinting the prefix: ");
        for (int i = length-1; i >= 0; i--) {
                System.out.print(a[j]);
           System.out.println();
           Thread.sleep(500);
           System.out.println(e);
public class three {
   public static void main(String[] args) {
        Thread th1 = new Prefix();
       Thread th2 = new Suffix();
        th1.start();
        th2.start();
```

```
C: > Users > Akshata A Bhat > 0 three.java > 2 Suffix > 0 Suffix()

1 import java.util.*;
                                                                                                                                                                                                                              Suffix() {
                                   String str = "VELLORE";
char[] chr = str.toCharArray();
System.out.println("Printing the suffix:");
for (int i = chr.length-1; i >= 0; i--) {
                                          for (int k = i; k >= 0; k--) {
    System.out.print(chr[k]);
                                   try {
    Thread.sleep(500);
} catch (InterruptedException e) {
    System.out.println(e);
}
           ▷ ~ • □ ...
                                     efix() {
    System.out.println("Enter a String: ");
    Scanner sc = new Scanner(System.in);
    String s = sc.nextline();
    sc.close();
    int length= s.length();
  ₽
   for (int j = 0; j <= i; j++) {
    System.out.print(a[j]);</pre>
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       ⊗0∆2 ♣>
```

```
▷ ~ • □ ...
           try {
    Thread.sleep(500);
    } catch (InterruptedException e) {
    Runand Debug (Ctrl+Shift+D) stem.out.println(e);
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 Pun|Debug
public static void main(String[] args) {
   Thread th1 = new Prefix();
   Thread th2 = new Suffix();
}
                                   th2.start();
            ncoding=UTF-8' 'Enter a String: VELLORE
            Printing the prefix:
            VELLORE
VELLOR
Printing the suffix: EROLLEV
            OLLEV
            V
PS C:\Users\Akshata A Bhat> []
```

2. Create two threads (of normal priorities): one to read a string and returns the length of it and other one to display the asci values of English alphabet (A-Z)

```
import java.util.*;

class Length extends Thread {

   Length() {

       String str;

       Scanner sc = new Scanner(System.in);

       System.out.println("Enter the string");
}
```

```
str = sc.nextLine();
        int n = str.length();
       System.out.println("Length of the input string = " + n);
       sc.close();
           Thread.sleep(500);
           System.out.println(e);
class Ascii extends Thread {
   Ascii() {
           int i;
                System.out.println((char)('A'+i) + " --> " +
('A'+i));
           Thread.sleep(500);
           System.out.println(e);
```

```
public class Main {
    public static void main(String[] args) {
        Thread th1 = new Length();
        Thread th2 = new Ascii();
        th1.start();
        th2.start();
}
```

```
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ည
                     Ascii() {
    int i;
    for(i = 0; i < 26; i++){
        System.out.println((char)('A'+i) + " --> " + ('A'+i));
    }
try {
    Thread.sleep(500);
} catch (InterruptedException e) {
    System.out.println(e);
 📢 File Edit Selection View Go Run Terminal Help
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Get Started • Main,java 1 X
                                                                                                                                                                      ▷ ~ • □ ...
                      Run|Debug
public static void main(String[] args) {
                          Thread th1 = new Length();
Thread th2 = new Ascii();
                                                                                                                  Ln 57, Col 2 Spaces: 4 UTF-8 CRLF Java 🖒 JavaSE-16 🔊
```

