All returned values are in one of the “A” registers: dwords returned in EAX, words returned in AX, and bytes returned in AL. All reference variables are returned in the EAX register since they are always addresses.

In EVERY case below, if the method returns String, you must return the address of a dynamically allocated string of bytes within the method.

Member 1- write the below methods in a file **String1.asm**

+String\_length(string1:String):int

+String\_equals(string1:String,string2:String):boolean (byte)

+String\_equalsIgnoreCase(string1:String,string2:String):boolean (byte)

+String\_copy(string1:String):String => +String\_copy(lpStringToCopy:dword):dword

+String\_substring\_1(string1:String,beginIndex:int,endIndex:int):String  
  
+String\_substring\_2(string1:String,beginIndex:int):String  
  
+String\_charAt(string1:String,position:int):char (byte)

+String\_startsWith\_1(string1:String,strPrefix:String, pos:int):boolean  
  
[+String\_startsWith\_2(string1:String, strPrefix:String)](http://beginnersbook.com/2013/12/java-string-startswith-method-example/):boolean   
  
[+String\_endsWith(string1:String, suffix:String):boolean](http://beginnersbook.com/2013/12/java-string-endswith-method-example/)

Member 2 write the below methods in a file String2.asm   
  
+String\_length(string1:String):int

+String\_indexOf\_1(string1:String,ch:char):int   
  
+String\_indexOf\_2(string1:String,ch:char,fromIndex:int):int

[+String\_indexOf\_3(string1:String, str:String):int](http://beginnersbook.com/2013/12/java-string-indexof-method-example/)

[+String\_lastIndexOf\_1(string1:String, ch:char)](http://beginnersbook.com/2013/12/java-string-lastindexof-method-example/):int

[+String\_lastIndexOf\_2(string1:String,ch:char,fromIndex:int):int](http://beginnersbook.com/2013/12/java-string-lastindexof-method-example/)

[String\_lastIndexOf\_3(string1:String,str:String)](http://beginnersbook.com/2013/12/java-string-lastindexof-method-example/):int

+[String\_concat(string1:String,str:String)](http://beginnersbook.com/2013/12/java-string-concat-method-example/" \o "concat" \t "_blank):String

+[String\_replace(string1:String,oldChar:char,newChar:char)](http://beginnersbook.com/2013/12/java-string-replace-replacefirst-replaceall-method-examples/):String

+[String\_toLowerCase(string1:String):String](http://beginnersbook.com/2013/12/java-string-tolowercase-method-example/" \t "_blank)   
  
+String\_toUpperCase(string1:String):String