

Toggle String





Question

For a given String consisting of uppercase and lowercase English alphabets. Write a scala program to change the case of each alphabet in this String. That is, all the uppercase letters should be converted to lowercase and all the lowercase letters should be converted to uppercase.

Sample Input: abcdE Sample Output: ABCDe





Program

```
build.sbt
import java.util.InputMismatchException
import scala.io.StdIn.readLine
class ToggleString {
  def toggleString(inputString: String): String = {
    var afterToggleString:String=""
    for (index <- 0 ≤ until < inputString.length) {
      val asciiValue: Int = inputString.charAt(index)
      if (asciiValue >= 65 && asciiValue <= 90) {
        val toUpperCase: Char = (asciiValue + 32).asInstanceOf[Char]
        afterToggleString+=toUpperCase
      else if (asciiValue >= 97 && asciiValue <= 122) {
        val toLowerCase: Char = (asciiValue - 32).asInstanceOf[Char]
        afterToggleString+=toLowerCase
    return afterToggleString
```





Program

```
def main(args: Array[String]): Unit = {
 val obj = new ToggleString
 val inputString = readLine("Enter the String :")
   if (inputString.isEmpty)
      throw new NullPointerException
   case ex: NullPointerException=> {
      print("Input by User is " + ex.getMessage)
  val toggleString:String=obj.toggleString(inputString)
  print(toggleString)
```





Test Case

```
🕍 Main.scala 🗡 😘 ToggleStringTest.scala 🗡
                                          build.sbt ×
       import org.scalatest.flatspec.AnyFlatSpec
       class ToggleStringTest extends AnyFlatSpec{
         val obj=new ToggleString
         it should "match with input Manish" in{
           assert( condition = "mANISH" == obj.toggleString( inputString = "Manish"))
         it should "match with other input sCaLA" in {
           assert( condition = "ScAla" == obj.toggleString( inputString = "sCaLA"))
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```





Output

```
Run: Main ×

/usr/lib/jvm/java-1.8.0-openjdk-amd64/bin/java ...

Enter the String :abcdE

ABCDe

Process finished with exit code 0
```





THANK YOU

