

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

```
Main.scala
              ToggleStringTest.scala
                                        build.sbt
      import scala.io.StdIn.readLine
                                                                                             A3 ^ v

▲ Manish Mishra

      class ToggleString {

▲ Manish Mishra

        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 toLowerCase: Char = (asciiValue + 32).asInstanceOf[Char]
              afterToggleString+=toLowerCase
            else if (asciiValue >= 97 && asciiValue <= 122) {
              val toUpperCase: Char = (asciiValue - 32).asInstanceOf[Char]
              afterToggleString+=toUpperCase
          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"))
11
```





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

