7/31/25, 6:14 PM lab15 p2

```
#Custom String Class: Implement a CustomString class that overloads the +
 #operator for concatenation and the * operator to repeat the string. Include a m
 #return the string in uppercase.
 class CustomString:
     def __init__(self, value):
         if not isinstance(value, str):
             raise TypeError("CustomString can only be initialized with a string.
         self.value = value
     def __add__(self, other):
         if not isinstance(other, CustomString):
             raise TypeError("Only CustomString instances can be concatenated.")
         return CustomString(self.value + other.value)
     def __mul__(self, times):
         if not isinstance(times, int):
             raise TypeError("The multiplier must be an integer.")
         return CustomString(self.value * times)
     def to_uppercase(self):
         return self.value.upper()
     def __str__(self):
         return self.value
 s1 = CustomString("Hello")
 s2 = CustomString("World")
 s3 = s1 + s2
 print("Concatenated:", s3)
 s4 = s1 * 3
 print("Repeated:", s4)
 print("Uppercase:", s1.to_uppercase())
Concatenated: HelloWorld
Repeated: HelloHelloHello
Uppercase: HELLO
```

file:///C:/Users/nikhi/Downloads/lab15 p2.html

In []: