Write a python program for the following Requirement

Input:s1=”MAHESH”

S2=”BABU”

Output:MBAAHBEUSH

Program:

s1='MAHESH'

s2='BABU'

i=0

j=0

output=''

while i<len(s1) or j<len(s2):

if i<len(s1):

output+=s1[i]

i+=1

if j<len(s2):

output+=s2[j]

j+=1

print(output)

**Iterations:**

**1st iteration:**

i<len(s1) and j<len(s2) 0<6 and 0<4 (Note:len(s1)=6and s2=4)

if 0<6:

output+=s1[i]

output+=s1[M]

output=’M’

i+=1

if 0<4:

output+=s2[j]

output+=s2[B]

output=’MB’

j+=1

2nd iteration

Now i=1 and j=1

i<len(s1) and j<len(s2) 1<6 and 1<4:

if 1<6:

output+=s1[i]

output+=s1[A]

output=’MBA’

i+=1

if 1<4:

output+=s2[j]

output+=s2[A]

output=’MBAA’

j+=1

3rd iteration

Now i=2 and j=2

i<len(s1) and j<len(s2) 2<6 and 2<4:

if 2<6:

output+=s1[i]

output+=s1[H]

output=’MBAAH’

i+=1

if 2<4:

output+=s2[j]

output+=s2[B]

output=’MBAAHB’

j+=1

4 rth iteration

Now i=3 and j=3

i<len(s1) and j<len(s2) 3<6 and 3<4:

if 3<6:

output+=s1[i]

output+=s1[E]

output=’MBAAHBE’

i+=1

if 3<4:

output+=s2[j]

output+=s2[B]

output=’MBAAHBHEU’

j+=1

5th iteration

Now i=4 and j=4

i<len(s1) and j<len(s2) 4<6 and 4<4:

if 4<6:

output+=s1[i]

output+=s1[E]

output=’MBAAHBHEUSH’

i+=1

if 4<4:

output+=s2[j]

condition fails

j+=1

6th iteration

Now i=6 and j=4

i<len(s1) and j<len(s2) 4<6 and 4<4:

if 6<6:

condition fail