

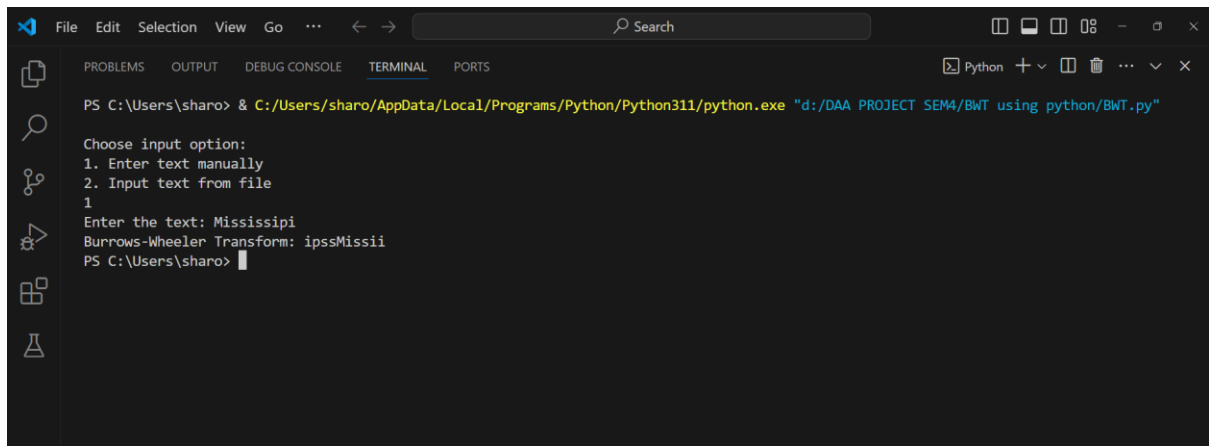
BURROW'S-WHEELER TRANSFORM ALGORITHM EXECUTION (USING PYTHON)

INPUT-1: 'MISSISSIPI'

(This input text contains repeated patterns such as "issi" and "ssi", which can lead to efficient transformation, because of fewer rotations.)

OUTPUT-1:

(Probably the best case)



```
PS C:\Users\sharo> & C:/Users/sharo/AppData/Local/Programs/Python/Python311/python.exe "d:/DAA PROJECT SEM4/BWT using python/BWT.py"

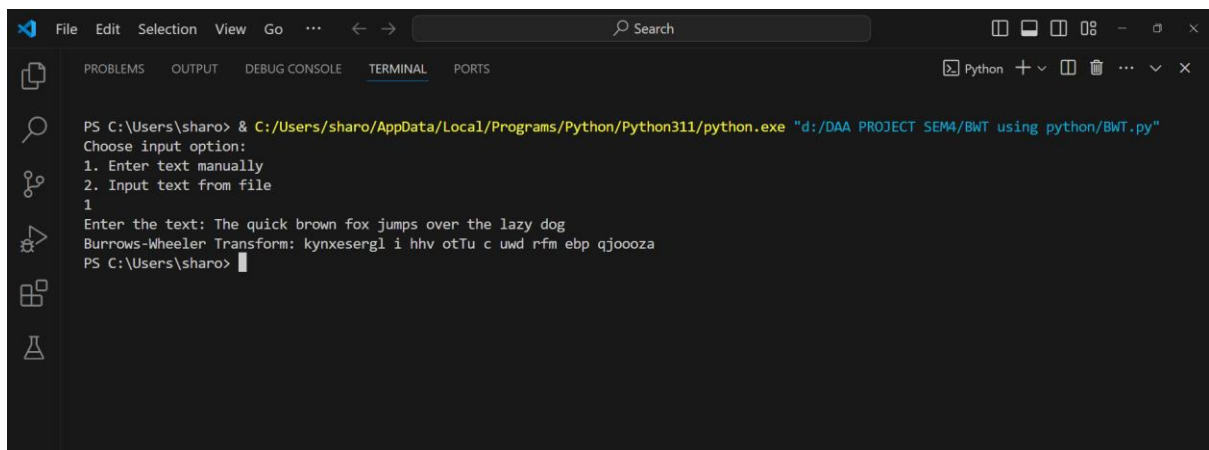
Choose input option:
1. Enter text manually
2. Input text from file
1
Enter the text: Mississippi
Burrows-Wheeler Transform: ipssMissii
PS C:\Users\sharo>
```

INPUT-2: STRING THAT CONTAINS ALL ALPHABETS

(This input text contains a sequence of distinct characters with no repeated patterns. Each rotation of the input text produces a new permutation, requiring the BWT algorithm to consider all possible rotations (more rotations).)

OUTPUT-2:

(Probably the worst case)

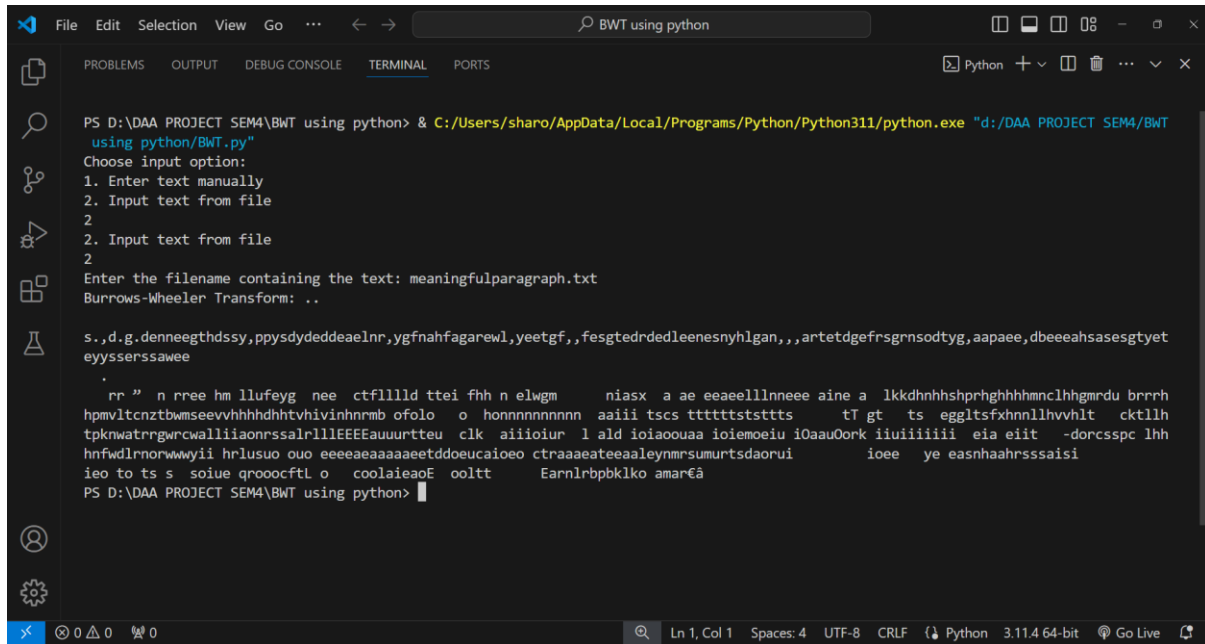


```
PS C:\Users\sharo> & C:/Users/sharo/AppData/Local/Programs/Python/Python311/python.exe "d:/DAA PROJECT SEM4/BWT using python/BWT.py"

Choose input option:
1. Enter text manually
2. Input text from file
1
Enter the text: The quick brown fox jumps over the lazy dog
Burrows-Wheeler Transform: kynxesergl i hhv otTu c uwd rfm ebp qjoozoa
PS C:\Users\sharo>
```

INPUT-3: MEANINGFUL PARAGRAPH

OUTPUT-3:



```
PS D:\DAA PROJECT SEM4\BWT using python> & C:/Users/sharo/AppData/Local/Programs/Python/Python311/python.exe "d:/DAA PROJECT SEM4/BWT
using python/BWT.py"
Choose input option:
1. Enter text manually
2. Input text from file
2
2. Input text from file
2
Enter the filename containing the text: meaningfulparagraph.txt
Burrows-Wheeler Transform: ..

s.,d.g.denneegthdssy,ppysdydeddeaelnr,ygfnahfagarewl,yetgf,,fesgtedrdedleenesnyhlgn,,,artetdgefrsgrnsodtyg,aapae,dbeeehsasgesgtyet
eysserssaewee

    'rr" n ree hm llufeyg nee ctflllld ttei fhh n elwgm niasx a ae eaeelllnneee aine a lkddhnhshprhghhhmncldhgmrdubrrrh
hpmvltnzntbwmseevvhhhdhtvhivinhrmb ofolo o hnnnnnnnnnn aaiii tscs tttttststts tT gt ts eggltstfxhnnllhvhlit cktllh
tpknwatrgwrcwalliaonrsslrl1lEEEFauuurtteu clk aiiiour l ald ioiaouaa ioiemoeiu ioaauOork iiiiuiiiiii eia eiit -dorcsspc lhh
hnfwldlrnorwwyii hrlusuo ouo eeeeeaaaaaeetddoeucaioeo ctraaaateaaaleynmrsumurtsdaorui ioee ye easnhaahrsssaissi
ieo to ts s soive groocftl o coolaieaoE ooltt Earnlrbpbk1ko amarEa
PS D:\DAA PROJECT SEM4\BWT using python>
```