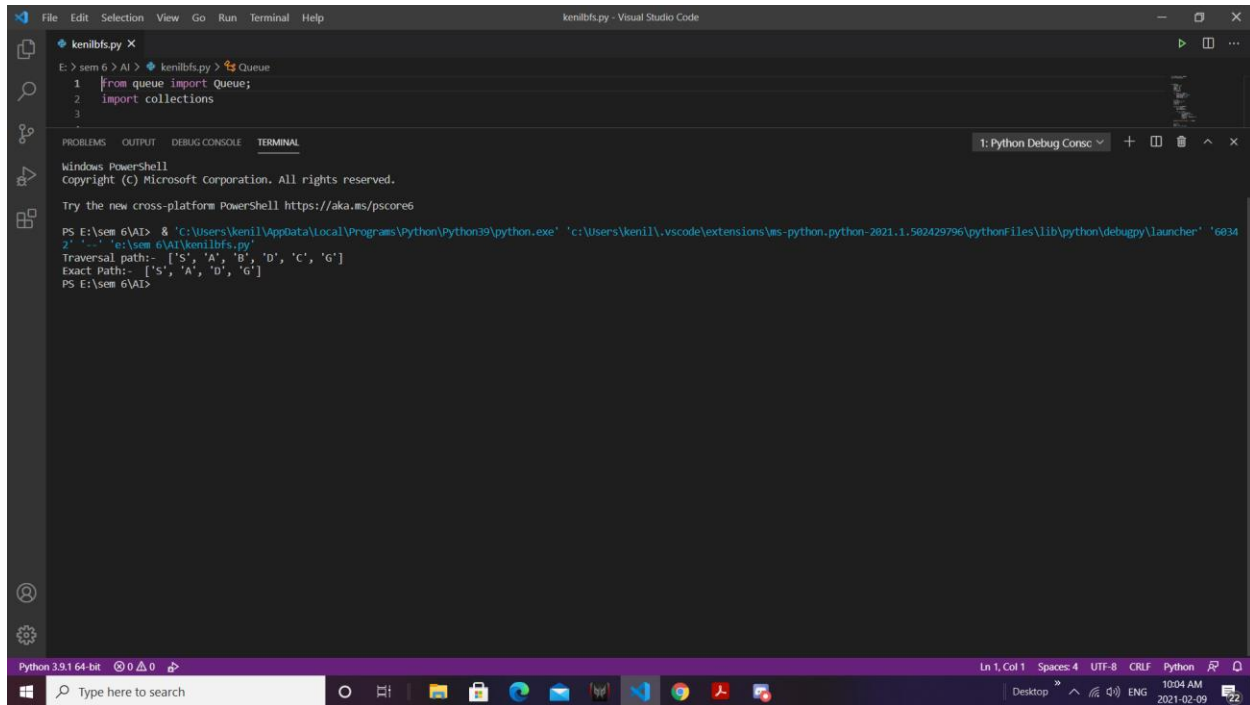


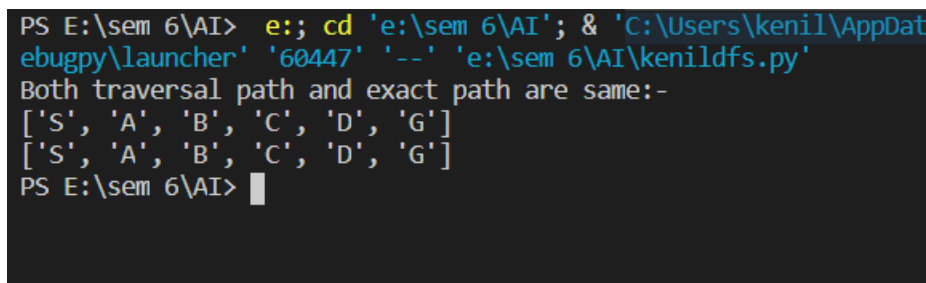
Following is the Output for bfs tree:



```
kenilbfs.py
1 from queue import Queue;
2 import collections
3

PS E:\sem 6\AI> & 'C:\Users\kenil\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\kenil\.vscode\extensions\ms-python.python-2021.1.502429796\pythonFiles\lib\python\debugpy\launcher' '60342' '--' 'e:\sem 6\AI\kenilbfs.py'
Traversal path:- ['S', 'A', 'B', 'D', 'C', 'G']
Exact Path:- ['S', 'A', 'D', 'G']
PS E:\sem 6\AI>
```

Following is the output for dfs tree:



```
PS E:\sem 6\AI> e.; cd 'e:\sem 6\AI'; & 'C:\Users\kenil\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\kenil\.vscode\extensions\ms-python.python-2021.1.502429796\pythonFiles\lib\python\debugpy\launcher' '60447' '--' 'e:\sem 6\AI\kenildfs.py'
Both traversal path and exact path are same:-
['S', 'A', 'B', 'C', 'D', 'G']
['S', 'A', 'B', 'C', 'D', 'G']
PS E:\sem 6\AI>
```

Output for ids tree:

```
PS E:\sem 6\AI> e:; cd 'e:\sem 6\AI'; & 'C:\Users\
ebugpy\launcher' '58504' '--' 'e:\sem 6\AI\kenilid

TRAVERSAL PATH:-
S
S
A
B
S
A
B
D
B
C
D
S
A
B
C
D
D
G

exact:-
['S', 'A', 'D', 'G']
PS E:\sem 6\AI> 
```