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COURSE : ARTIFICIAL INTELLIGENCE

ASSIGNMENT : PART 1 (BOGGLE)

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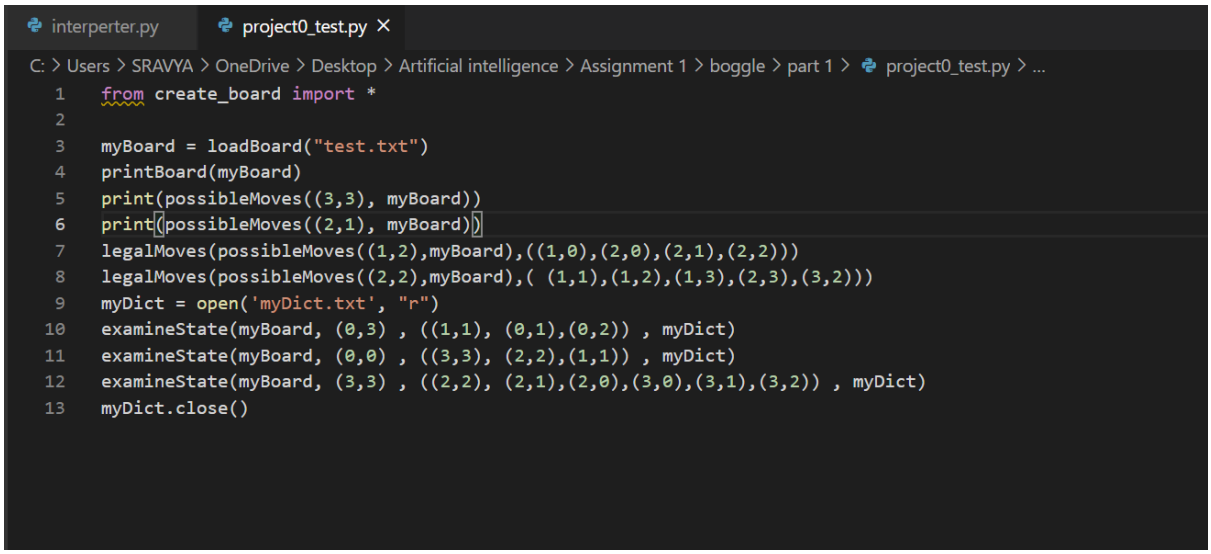
I have defined the functions in a file called create_board.py and imported that file in a new file called boggle.py, and called those function as suggested in the testing file :

The screenshot of the function calling:



The output of this is :

```
>>> myBoard = loadBoard("test.txt")

>>> printBoard(myBoard)
J O P Y
C M P V
X F E G
P G V U

>>> print(possibleMoves((0,0), myBoard))
[(1, 1), (1, 0), (0, 1)]

>>> print(possibleMoves((2,2), myBoard))
[(3, 3), (3, 1), (3, 2), (1, 3), (1, 1), (1, 2), (2, 1), (2, 3)]

>>> legalMoves(possibleMoves((2,2),myBoard), ((0,0),(1,1),(2,2),(3,3)))
{(3, 2), (3, 1), (2, 3), (1, 3), (1, 2), (2, 1)}

>>>

>>> myDict = open('myDict.txt', "r")

>>> examineState(myBoard,(0,0),((1,1),(1,0)), myDict)
MCJ No

>>> examineState(myBoard, (1,0), ((2,2),(2,1),(1,1)), myDict)
EFMC No

>>> examineState(myBoard,(3,1),((0,1),(1,0),(1,1),(2,1)), myDict)
OCMFG No

>>> myDict.close()
```