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import json

def main():
    runs the main loop

    calls a menu

    sends control to other parts of the program

    handles invalid input from menu

    menuChoice = getMenuChoice()

    if menuChoice == "0":
        exit

    if menuChoice == "1":
        loadGame()

    if menuChoice == "2":
        loadGame()

    if menuChoice == "3":
        saveGame()

    if menuChoice == "4":
        editNode()

    if menuChoice == "5":
        playGame()

    else:
        print(f"Invalid input.")

def getMenuChoice():
    print(f"""
        0) exit
        1) load default game
        2) load a game file
        3) save the current file
    """)

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- 4) edit or add a node
  - 5) play the current game
- “””)

menuChoice = input(“What will you do? “)

return menuChoice

def playGame():

call getDefaultGame to get defaultGame

set currentKey to “start”

use while keepGoing to iterate through defaultGame dictionary

set keepGoing to True

while keepGoing:

if currentKey gets “quit”,

set keepGoing to False (exiting loop)

else:

send game and currentKey to playNode function

currentKey gets result of playNode

def playNode():

parameters: defaultGame, currentKey

create var “currentNode”; “currentNode” looks up the node from the currentKey  
(defaultGame[currentKey])

(description, menuA, nodeA, menuB, nodeB) = currentNode

print the menu

call {description}

1) {menuA}

2) {menuB}

choice = input(what will you do?)

if choice == “1”:

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        nextKey == nodeA
    if choice == "2":
        nextKey == nodeB
    else:
        nextKey == currentKey
    return nextKey

def getDefaultGame():
    creates a single-node default game
    returns that data structure
    defaultGame = {
        "start": ["Do you want to win or lose?", "I'm a winner!", "win", "I'm a big
        loser", "lose"]
        "win": ["You win! I knew you could do it.", "Start over", "start", "Quit", "quit"]
        "lose": ["You lose! I'm so disappointed in you.", "Start over", "start", "Quit",
        "quit"]
    }
    generates dictionary (defaultGame)
    return defaultGame

def editNode():
    given the current game structure,
    list all of the current content print(json.dumps(defaultGame, indent = 2))
    nodeName = get node name input("what node do you want to edit or create?")
    if node exists,
        copy that node to newNode
    else (IE doesn't exist yet)
        create newNode with empty data

    use editField() to allow user to edit each node

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return the now edited newNode

def editField():

    gets a field name

    print the field's current value

    if the user presses "enter" immediately without changing anything

        retain the current value

    else

        use the new value

def saveGame():

    save the game to a data file

    preset the file name

    print the current game dictionary in human-readable format (pretty-printing)

    save the file in JSON format

    defaultGame = getDefaultGame()

    outFile = open("defaultGame.json", "w")

    json.dump(defaultGame, outFile, indent=2)

    outFile.close

    print(json.dumps(defaultGame, indent=2))

    print("saved defaultGame data to defaultGame.json")

def loadGame():

    presume there is a data file named \*whatever you preset it as in saveGame()\*

    open that file

    load the data into the game object

    return that game object

    inFile = open("defaultGame.json", "r")

    defaultGame = json.load(inFile)

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inFile.close
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return defaultGame
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