Programmers Journal - Unit 3 Lesson 6

[4:40] First, I created a variable winners and made it an empty list and created a function to append all the main variables to a players list.

players = [] # data list of players name, handicap, score and total

winner = [] # player with the least amount of points

def golferData(player): # pick apart string containing a player's data

players.append(player)

[4:43] I then created a while loop to read out all the lines of the golfscores text file and

printed it to test the loop.

golfScores = open("golfScores.txt", 'r')

buffer = golfScores.readline()

while True:

player = golfScores.readline()

if player == "":

break

print(player)

[4:50] I will then create codes to get all the main values for each player from every line with help from the slideshow lesson.

playername = player[:player.index(" ")]

index = -1

handicap = 0

pos = 0

while player[index] != 'H':

if player[index].isnumeric():

if pos >= 1:

handicap = int(player[index]) \* 10 + handicap

else:

handicap = int(player[index])

pos += 1

index -= 1

index = player.index(" ")

score = 0

size = len(player)

while index < size and player[index] != 'H':

if player[index].isnumeric():

score += int(player[index])

index += 1

[5:20] I then created a new function to get the total of the score minus the handicap and return the total. I then define total as the result of that function and then I change player to all the variables and use my function to append that to the players list. Finally, I have it print out what everyone has scored.

def calculateTotal(score, handicap):

total = score - handicap

return total

total = calculateTotal(score, handicap)

player = (playername, score, handicap, total)

golferData(player)

print(f"{playername} scored {score} - {handicap} for a total of {total}")

[5:40] Lastly, I have to decide who the winner is, so I create an if statement that states after all the lines are read if they’re players in the list, whoever has the lowest total score which is in the [3] spot of the list, will be added to the winners list. I then print out that winner and their score in green so it’s obvious that they have won and add a bit of color to it.

if players:

winner = min(players, key=lambda x: x[3]) # Player with the lowest total score

else:

winner = None

if winner:

print(Fore.GREEN+ f"The winner is {winner[0]} with a total score of {winner[3]}" + Fore.RESET) # Prints winner in green

else:

print("Error: No results")

[6:10] After all of this the code seems to be working fine with the given golfscores but I will test it further by changing the scores to change the winner to see if it works completely. I added myself to another line to see if it would work and it has.

