Show Python code for the following problem:

In the Rock-Paper-Scissors game:

R (rock) beats S (scissors) - (a rock can smash scissors)

S beats P (paper) - (scissors can cut paper)

P beats R - (paper can cover a rock)

When they are the same, it is a tie for that game.

Input: (The filename is passed as a command argument.)

Text Line containing multiple games for one match.

Note that each game is a pair of letters representing what each player selected. Assume the first letter in each pair of letters is for player 1 and the second letter is for player 2.

**Sample Data:**

SS PR

PR SR RR PP PS

RP SP SS SP PS

**Notes:**

1. Your program must call the function **detWinner**(match), where match contains multiple games (e.g., "SS PR"). It prints each game and its winner (or "tie"), and determines the winner of the match based on the rules above. For the match, return the winner as an integer: 0 – tie, 1 – player one, 2 – player two
2. You must show your code for detWinner and your program.
3. **Your program:**
   * Must validate the command argument
   * Read the input
   * Output "Match" and a sequence number.
   * Must call your detWinner function to print the winner of individual games and determine the match winner.
   * Output the winner of the match.
4. Your code **must** only use Python features we discussed in my course notes.
5. **You may receive less points for a less efficient approach.**

**Sample Output:**

Match 1

SS Tie

PR 1

Winner: Player One

Match 2

PR 1

SR 2

RR Tie

PP Tie

PS 2

Winner: Player Two

Match 3

RP 2

SP 1

SS Tie

SP 1

PS 2

Tied

Import sys

gameDict = {“RS”:1, “SR”:-1, “SP”:1, “PS”:-1, “PR”:1, “RP”:=1, “RR”:0, “SS”:0, “PP”:0}

gameResM = [2, “tie”, 1] … [“tie”, 1 ,2]

def detWinner(match):

gameM = match.split()

#makes a list of

total = 0

for game in gameM:

gameRes == gameDict.get(game, “NF”):

If gameRes == “NF”:

print(“ bad game: ”, game)

continue

total += gameRes

print (game, gameResM[gameRes+1]) … gameResM[gameRes]

if total > 0:

return 1

elif total == 0:

return 0

else:

return 2

#main program

//check for command arg

If len(sys.argv) < 2:

Print(“filename needed as argument”)

Sys.exit(1)

Match = 0

File = open(sys.arv[1], “r”)

While True:

Line = file.readline()

If line == “”:

Break

Match += 1

Print(“Match ”, match)

Line = line.rstrip()

Winner = detWinner(line)

If winner == 0:

Print(“ Tied”)

Elif winner == 1:

Print(“ Winner: Player One”)

Else winner == -1:

Print(“ Winner: Player Two”)