CS532 HW 3 Part 4B

# Python Code

**import** numpy **as** np  
**import** pandas **as** pd  
**import** scipy.linalg **as** linalg  
**import** matplotlib.pyplot **as** plt  
**import** matplotlib.patches **as** mpatches

**def** question5():  
 A = np.array([[25, 0, 1],  
 [20, 1, 2],  
 [40, 1, 6]])  
  
 b = np.array([[110],  
 [110],  
 [210]])  
 trueX = np.array([[4],  
 [9],  
 [4]])  
  
 print(**'Part a ans: '**)  
 print(linalg.solve(A, b))

# Program Output

Part a ans:

[[ 4.25]

[ 17.5 ]

[ 3.75]]