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**Exercise 8**

**Submission:**

* Name your file as ex8.doc
* Include the source code and a screenshot of the output for each question in your word doc
* One submission is needed from each group

1. What will be displayed by the following program?

values = [[3, 4, 5, 1], [33, 6, 1, 2]]

v = values[0][0]

for row in range(0, len(values)):

    for column in range(0, len(values[row])):

        if v < values[row][column]:

            v = values[row][column]

print(v)

A. 1

B. 3

C. 5

D. 6

E. 33

2. Suppose the weekly hours for all employees are stored in a table. Each row records an employee’s seven-day work hours with seven columns. For example, the following table stores the work hours for eight employees. Write a program that displays employees and their total hours in decreasing order of the total hours.

Table

Description automatically generated

Hint: you can copy and paste following 2D list into your program.

workHours = [

[2, 4, 3, 4, 5, 8, 8],

[7, 3, 4, 3, 3, 4, 4],

[3, 3, 4, 3, 3, 2, 2],

[9, 3, 4, 7, 3, 4, 1],

[3, 5, 4, 3, 6, 3, 8],

[3, 4, 4, 6, 3, 4, 4],

[3, 7, 4, 8, 3, 8, 4],

[6, 3, 5, 9, 2, 7, 9]]

workHours = [

        [2, 4, 3, 4, 5, 8, 8],

        [7, 3, 4, 3, 3, 4, 4],

        [3, 3, 4, 3, 3, 2, 2],

        [9, 3, 4, 7, 3, 4, 1],

        [3, 5, 4, 3, 6, 3, 8],

        [3, 4, 4, 6, 3, 4, 4],

        [3, 7, 4, 8, 3, 8, 4],

        [6, 3, 5, 9, 2, 7, 9]]

table = []

for rowrecord in range(len(workHours)):

    totalhours = sum(workHours[rowrecord])

    table.append([totalhours,"Employee "+str(rowrecord)])

table.sort(reverse = True)

for i in table:

    print("Total hours for",i[1],"=",i[0])

