𝗤𝘂𝗲𝘀𝘁𝗶𝗼𝗻 1:

Write a Python program which will take a list of course codes from the

user. Create a dictionary from those course codes that will hold the course

codes level wise.

Sample Input:

CSE110 CSE111 CSE221 CSE260 CSE320 CSE340 CSE370 CSE421 CSE423

Sample Output:

{"100 Level" : ["CSE110", "CSE111"], "200 Level" :

["CSE221", "CSE260"], "300 Level" : ["CSE320", "CSE340" , "CSE370"], "400

Level" : ["CSE421", "CSE423"]}

𝗤𝘂𝗲𝘀𝘁𝗶𝗼𝗻 2:

Implement the Author and Book class so that the following output is produced

a1 = Author("David")

b1 = Book("Novel")

b2 = Book("The Notebook", "Romantic")

b3 = Book("The Alchemist", "Novel")

print("==============================")

a1.addBook(b1)

print("==============================")

b1.setName("The Kite runner")

a1.addBook(b1)

print("==============================")

a1.addBook(b2, b3)

print("==============================")

a1.addBook(Book("The Fault in Our Stars", "Romantic"))

print("==============================")

a1.showAllBooks()

print("==============================")

a1.removeLastBook()

print("==============================")

a1.showAllBooks()

print("==============================")

Author.showAllInfo()

Output:

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A book can’t be added without name

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A book named The Kite runner is added

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A book named The Notebook is added

A book named The Alchemist is added

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A book named The Fault in our stars is added

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Author name: David

Novel: The Kite runner, The Alchemist

Romantic: The Notebook, The Fault in our stars

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Author name: David

Novel: The Kite runner, The Alchemist

Romantic: The Notebook

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Total Novel books: 2

Total Romantic books: 1

𝗤𝘂𝗲𝘀𝘁𝗶𝗼𝗻 3:

Design Madrid class and Barca class which inherit from Club class so that

the following code provides the expected output.

[Assume, per trophy provides 10 points for a club. The addTrophy() method

in both child classes should work for any number of parameters and any type

of trophies]

class Club:

def \_\_init\_\_(self, name, league):

self.name = name

self.league = league

def \_\_str\_\_(self):

s = f"Name: {self.name}\nLeague: {self.league}"

return s

# Write your codes here.

# Do not change the following lines of code.

c1 = Madrid("Real Madrid", "La Liga", "Spain")

c1.addTrophy("LaLiga 2020","UEFA 2016","UEFA 2017","LaLiga

2019","CopaDelRay 2014")

print('====================================')

c1.showClubPoint()

print('====================================')

print(c1)

print('====================================')

c2 = Barca("Barcelona", "La Liga", "Spain")

c2.addTrophy("LaLiga 2015","UEFA 2015", "LaLiga 2016", "UEFA

2017", "LaLiga 2020", "Supercopa 2020")

print('====================================')

c2.showClubPoint()

print('====================================')

print(c2)

OUTPUT:

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Real Madrid has 50 points

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Name: Real Madrid

League: La Liga

Country: Spain

Trophy Cabinet:

LaLiga: [2020, 2019]

UEFA: [2016, 2017]

CopaDelRay: [2014

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Barcelona has 60 points

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Name: Barcelona

League: La Liga

Country: Spain

Trophy Cabinet:

LaLiga: [2015, 2016, 2020]

UEFA: [2015, 2017]

Supercopa: [2020]