Code:

print("Output for question 1:")

Midterm = [95, 78, 77, 86, 90, 88, 81, 66]

from HelperModule import RoundedAverage

max\_value = max(Midterm)

min\_value = min(Midterm)

range\_value = max\_value - min\_value

Average = RoundedAverage(Midterm)

print(f"The range for the Midterm scores is: {max\_value}-{min\_value} = {range\_value}")

print(f"The average for the Midterm scores is: {sum(Midterm)}/{len(Midterm)} = {Average}")

print()

print("Output for question 2:")

inp= "University of Kentucky"

print(inp[5:10]) #rsity

print(inp[-1]) #y

print(inp[:10]) #University

print(inp[5:]) #rsity of Kentucky

print()

print("Output for question 3:")

email= "John.Smith@uky.edu"

print(email.find("y")) #13

print()

Output:

Output for question 1:

The range for the Midterm scores is: 95-66 = 29

The average for the Midterm scores is: 661/8 = 82.62

Output for question 2:

rsity

y

University

rsity of KentuckyCode:

Output for question 3:

13

Code:

print("Output for question 4:")

llst=[[1,2,3,5],[2,2,6,8],[2,3,5,9],[3,5,4,7],[1,3,5,0]]

print(llst[2]) # [2,3,5,9]

print(llst[2][2]) # 5

print(llst[3][0]) # 3

print()

print("Output for question 5:")

llst=[1, "a", "hello", 2]

llst.remove(1) #["a", "hello", 2]

print(llst)

print()

print("Output for question 6:")

llst=[1, "a", "hello", 2]

llst.append("hi")

print(llst) # [1, "a", "hello", 2, "hi"]

print()

print("Output for question 7:")

Scores2 = {'blue':[5, 5, 10], 'white':[5, 7, 12]}

print(Scores2['blue'][2]) # 10

print()

print("Output for question 8:")

tpl=(1,2,3,9,0)

print(tpl[3:4]) # 9,

Output:

Output for question 4:

[2, 3, 5, 9]

5

3

Output for question 5:

['a', 'hello', 2]

Output for question 6:

[1, 'a', 'hello', 2, 'hi']

Output for question 7:

10

Output for question 8:

(9,)

Code:

print("Output for question 9:")

lst=[1, "a", "hello", 2]

dict\_={x:y for x,y in enumerate(lst)}

print(dict\_) # {0: 1, 1: 'a', 2: 'hello', 3: 2}

#print(dict\_[2])

print()

Output:

Output for question 9:

{0: 1, 1: 'a', 2: 'hello', 3: 2}

Appendix:

*HelperModule.py:*

def RoundedAverage(lst):

return round(sum(lst)/len(lst), 2)