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# %% [markdown]
# LIST
#  ·                    Create a LIST with your domain attributes, insert the elements using the append (), insert(), extend() and add any iterables (tuples, sets, dictionaries etc.) to the list (Use all the methods ).
#  ·                    Create a list with numeric and perform the following operations.
#  ·        Write a program to swap the first and last elements in a list.
#  ·       Write a program to find the sum of the digits in a list.
#  ·       Write a program to find the smallest element in a list.

# %%
zoo_list = ["zoo_id","visitor_id","staff_id","faq_id"]
zoo_list.append("visitor_name")
print(zoo_list)
zoo_list.insert(0,"zoo_name")
print(zoo_list)
attribute_iter={'staff_dob','staff_salary','staff_name'}
zoo_list.extend(attribute_iter)
print(zoo_list)
attribute_iter={1:'visitor_bill_id',2:'discount',3:'images'}
zoo_list.extend(attribute_iter)
print(zoo_list)

# %%
#  Write a program to swap the first and last elements in a list.
numericList=[1,5,6,7,8,0,2,3]
print('Original list',numericList)
temp = numericList[0]
numericList[0] = numericList[-1]
numericList[-1] = temp
print('After swap:',numericList)



# %%
# Write a program to find the sum of the digits in a list.
numericList=[1,5,6,7,8,0,2,3]
sumList = 0
for numbers in numericList:
    sumList = numbers + sumList
print('Sum is:',sumList)

# %%
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#   Write a program to find the smallest element in a list.
numericList=[1,5,6,7,8,0,2,3]
smallest = numericList[0]
for numbers in numericList:
    if numbers < smallest:
        smallest = numbers
print('Smallest is:',smallest)

# %% [markdown]
# Sort the dictionaries in ascending order based on the Key of the
dictionary.
# ·                    1. Create the dictionary with Numeric as Value
in Key - Value pair and find the sum of all the values in the
Dictionary.
# ·                        2. Write a Python code to demonstrate the
sorting in descending order of values with lambda function.

# %%
#Sort dictionary in ascending order
zoo_dict = {3:'visitor_bill_id', 2:'discount', 1:'images'}
print("Original dict:",zoo_dict)
sorted_zoo_dict = dict(sorted(zoo_dict.items()))
print("Sorted dict:",sorted_zoo_dict)

# %%
#Create the dictionary with Numeric as Value in Key - Value pair and
find the sum of all the values in the Dictionary.
num_dict = {'z':12,'o':45, 'm':0}
sum_dict = 0
print("Original dict:",num_dict)
for values in num_dict.values():
    sum_dict = sum_dict+values
print('Sum',sum_dict)

# %%
#Write a Python code to demonstrate the sorting in descending order
of values with lambda function.
num_dict = {'z':12,'o':45, 'm':0}
sorted_zoo_dict    =    sorted(num_dict.items(),key=lambda    x:x[1],
reverse=False)

print(sorted_zoo_dict)
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