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# %% [markdown]
#   1. Write a paragraph about introducing you and your selected domain (include
Full Name, domain name, register number, year …….).
# Write a python program to count the frequency of any specific word (your domain
name) in the paragraph.
#

# %%
def freq(str):
    string_list = str.lower().split()
    d={}
    #print(string_list)
    string_set = set(string_list)
    #print(string_set)
    '''for words in string_set:
        print(words,":",string_list.count(words))
    '''
    for words in string_set:
        keys = words
        values = string_list.count(words)
        d[keys] = values
    print(d)


paragraph = "Zoo management is managing the data related to the zoos. The numbers
of animals present, the staff and visitor details can be added and viwed. Let us
assume there are 1000 animals, about 200 visitors per day. The ticket cost is
200.00"
print("the word Zoo is repeated for:")
print(paragraph.lower().count('zoo'))
freq(paragraph)




# %% [markdown]
# Write a python program to display all the datatypes of selected specific
elements in the paragraph. (For example:– name - string, reg.no - int, marks -
float, etc.)

# %%
paragraph = "Zoo management is managing the data related to the zoos. The numbers
of animals present, the staff and visitor details can be added and viwed. Let us
assume there are 1000 animals, about 200 visitors per day. The ticket cost is
200.00"
```

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element=paragraph.split(" ")
data = '2'
for values in element:
    for chars in values:
        if (chars.isalpha() and chars==data):
            print("It is a string")
            break
        elif(chars.isdigit() and chars==data):
            print("It is a num")



# %% [markdown]
#   Write a python program to count the number of alphabets, numeric and other special symbols in the paragraph.

# %%
paragraph = "Zoo management is managing the data related to the zoos. The numbers of animals present, the staff and visitor details can be added and viwed. Let us assume there are 1000 animals, about 200 visitors per day. The ticket cost is 200.00"
para_lower=paragraph.lower()
alphabets = 0
numeric = 0
spchar = 0
for char in para_lower:
    if char.isalpha():
        alphabets += 1
    elif char.isdigit():
        numeric += 1
    else:
        spchar += 1
print("Alphabets:",alphabets)
print("Numeric:",numeric)
print("Special characters:",spchar)

# %% [markdown]
# Create a Set with elements that consists of various data types (int, float, string, Boolean, etc. from your domain) and perform the functions pop(), clear(), discard() and del. Write the insights as docstring.

# %%
set1 = {"Zoo", 1, 90, False}
set2 = {"Animal", 2, 1, 190.00}
'''pop() is used to return the last element in the set'''
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```
set1.pop()
print("After pop")
print(set1)

'''clear() is used to remove the elements in the set. here we are removing the
content of set1'''
set1.clear()
print("after clear")
print(set1)

'''discard(vallue) discards the value mentioned in the arg of the function'''
set2.discard(190.00)
print("after discard 190.00")
print(set2)



# %% [markdown]
# Update the Set with minimum 5 string attributes of your domain and arrange the
Set in descending order.

# %%
paragraph_set = {"Zoo","visitors","staff","faq"}
sorted_set = sorted(paragraph_set, reverse=True)
print(sorted_set)

# %% [markdown]
# Create a Tuple and Execute the packing and unpacking operations of tuples using
the attributes of your domain.

# %%
zoo = ("Zoo","visitors","staff","faq")
(Bannergatta_Zoo, Nada, Yella, best_time_to_visit)=zoo
print(Bannergatta_Zoo)
print(Nada)
print(Yella)
print(best_time_to_visit)



# %% [markdown]
# Enter your domain name as characters and count any number of characters and
print the count (for example – ('p','r','o','g','r','a','m') count of 'r' = 2)

# %%
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```
domlist=['z','o','o','m','a','n','a','g','e','m','e','n','t' ]
letter='o'
count_letter=0
for i in range(0,len(domlist)):
    if domlist[i].lower()==letter.lower():
        count_letter+=1
print("The letter {} appears {} times." .format(letter,count_letter))

# %% [markdown]
# Enter your domain name, execute all the slicing possibilities and also negative
indexing.

# %%
domain_name="Zoo Management"
print("Original Domain Name:", domain_name)
print("\nSlicing:")
print("1. Slicing from index 3 to 9:", domain_name[3:10])
print("2. Slicing from index 0 to 7:", domain_name[:8])
print("3. Slicing from index 5 to the end:", domain_name[5:])
print("4. Slicing from index 2 to 11 with step 2:", domain_name[2:12:2])
print("5. Slicing from the end -8 to the end -3:", domain_name[-8:-2])
print("7. Last character:", domain_name[-1])
print("Second to last character:", domain_name[-2])
```