## MACHINE LEARNING ASSIGNMENT-1

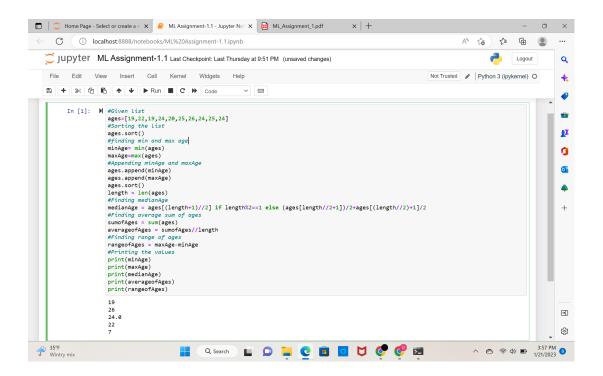
## NAME - DHARANI PULIMAMIDI

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## Video Link -

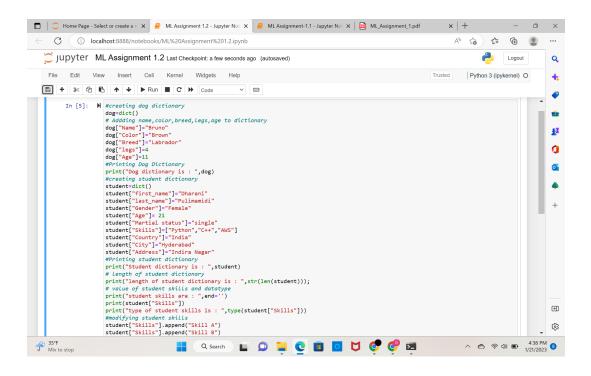
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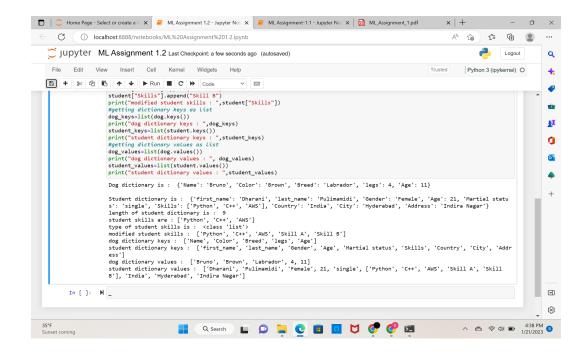
1. Given list of 10 students ages as [19,22,19,24,20,25,26,24,25,24] Firstly sort the list by using sort function and find min, max age of student. Now append the min age and max age by append() function. Median age of the student can be calculated by length, ages[length+1//2]. Average age can be printed by sum(), Range can be calculated by maxage - minage.



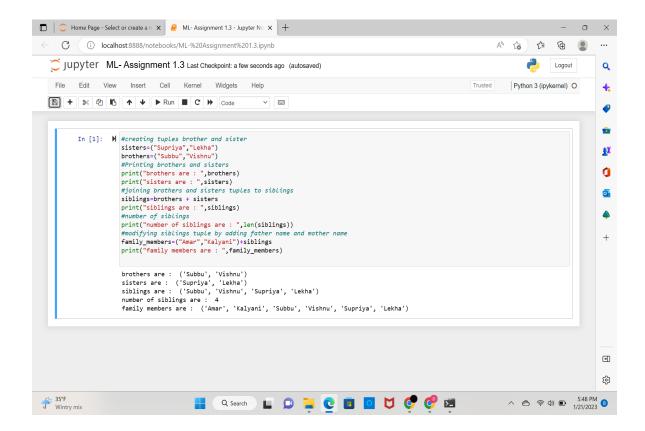
2. Create an empty dictionary as Dog. Add Name, color, breed, legs, age to the dictionary and print those values. Now create another dictionary as student dictionary and add the given keys to the dictionary. The length of the student dictionary can be printed by str(len(student)). The type of the student is checked by type(student["Skills"]). Modify by

using append(). To get dictionary keys use list(dog.keys()), for dictionary values use list(dog.values()).

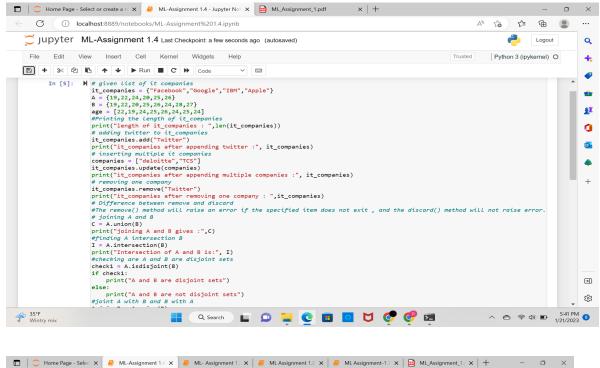


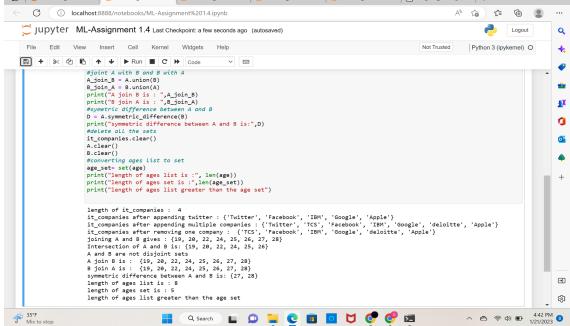


**3.** Create a tuple as sisters and brothers and print those values. Join brothers and sisters by using arithmetic operation perform Addition (+). The number of siblings can be calculated by len(siblings). Append Father and Mother name to siblings by arithmetic operator and print as family members.

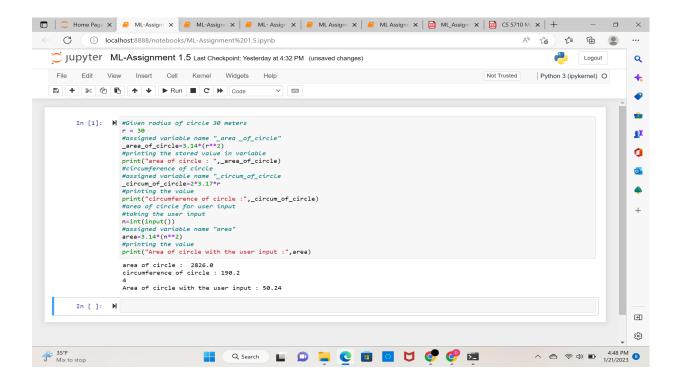


4. The length of the it\_companies can printed by len(it\_companies). Append "Twitter" by .add("Twitter") to it\_companies.For inserting multiple values use .update() and to remove values use .remove() to it\_comapnies.The difference between remove and discard raises an error so cant execute . For joining A and B use .union(). For intersection use .intersection(). For checking disjoint sets use if else loops.Joining A with B can be done by A\_join\_B , //ly B with A can be done. The symmetric difference can be done by A.symmetric\_difference(B). For deleting sets we use .clear().Finally the convert to set and the length can be calculated by len() function.

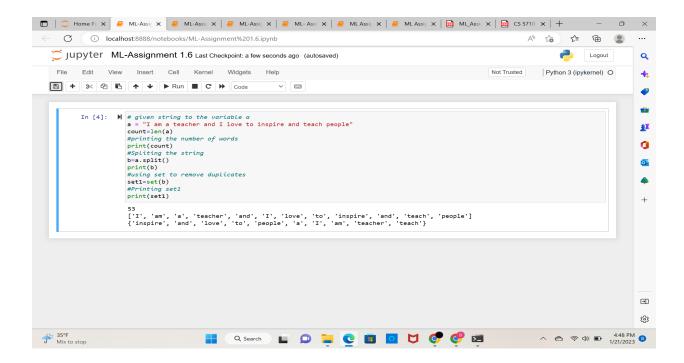




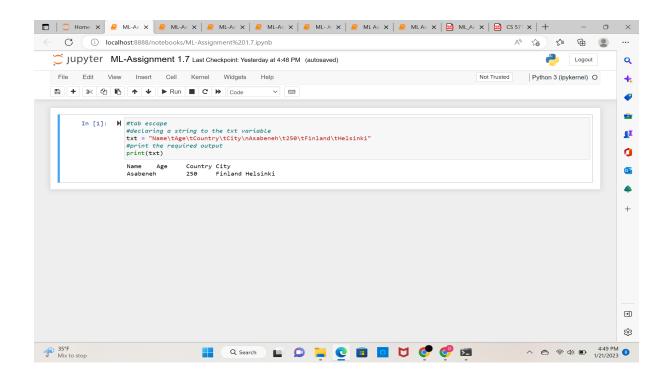
5. The radius of the circle is given as 30 meters. The area of circle is 3.14\*(r\*\*2). So the area of circle can be printed by it. The circumference of circle is 2\*3.14\*r, print it to another assigned variable \_circum\_of\_circle. The user needs to give values to the input to calculate area of circle.



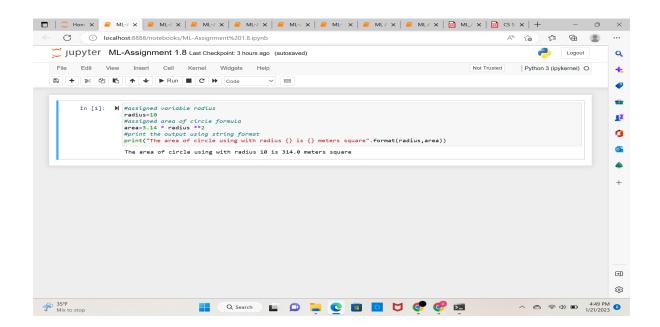
**6.** Assign the given sentence to variable a . Count the number of words in the variable a by len() and print the words by print(count). For splitting the words use .split() . For unique words delete the duplicates and print by print(set1).



7. Declare a string to the txt variable and the print the txt statement.



**8.** Given radius as 10 and area =3.14\*radius\*\*2. Printing the statement: area of circle with radius 10 is 314 meters square by string formatting is done by .format(radius, area).



**9.** N is a string which indicates to "Enter the number of students:" . Create a list to store weight in lbs. Use for loop for taking weights from user and append to add weights. For printing the weights in kilograms define lbs\_to\_kilograms(weight) and return the weight.

