In []:	Nested List> List inside list is a concept of nested list. Example: x=[10,20,30,40,50,[98,78,56,45,67]]
	How to access elements of nested list? x=[10,20,30,40,50,[98,78,56,45,67]]
Out[6]:	x=[10,20,30,"hello world"] x[3][6]
	x=[10,20,30,40,[10,20,30,["Python","Java"]]] x[4][3][0] 'Python'
Out[30]:	x[-1][-1]
Out[22]:	
Out[23]:	<pre>x=[10,20,30,40,[10,20,30,["Python","Java"]]] x[-1][-1].insert(1,"c++") x [10, 20, 30, 40, [10, 20, 30, ['Python', 'c++', 'Java']]] x=[10,20,30,40,[10,20,30,["Python","Java"]]]</pre>
Out[24]:	x[-1][-1].extend([200,300,400]) x
Out[26]: In [34]:	X
Out[34]:	[10 20 20 40 [10 20 c++ 20 [Dython lova]]
Out[36]:	
In [38]: Out[38]: In [44]:	x[4].pop() x [10, 20, 30, 40, [10, 20, 30]]
	<pre>for i in x: print(i) 10 20 30 40</pre>
In [43]:	[10, 20, 30, ['Python', 'Java']] Matrix Representation of list x=[[1,2,3],
	<pre>[7,8,9], [10,11,12]] for i in range(0,len(x)): print(x[i]) print(x[2][1]) print(x[-2][-2])</pre>
	[1, 2, 3] [4, 5, 6] [7, 8, 9] [10, 11, 12] 8
In []:	Nested Dictionary Nested Dictionary means dictionary inside dictionary Syntax: d = {1:{"name":"Pratyush","Class":"DS291122A","Module":"Python"}
In [50]:	2:{"name":"Akshay", "Class":"DS291122A", "Module":"Python"}} How to access element in nested dictionary d = {1:{"name":"Pratyush", "Class":"DS291122A", "Module":"Python"},
Out[50]:	2:{"name":"Akshay", "Class":"DS291122A", "Module":"Python"}} d[1]["Class"] d[2]["name"] d[1].get("Class")
In [59]:	How to add entry in nested Dictionary d = {1:{"name":"Pratyush", "Class":"DS291122A", "Module":"Python"},
	d[2].popitem() print(d) {1: {'name': 'Pratyush', 'Class': 'DS291122A', 'Module': 'Python', 'Qualification': 'B.Tech'}, 2: {'name': 'Akshay', 'Class': 'DS291122A'}} Python program to Check weather a Given String is Palindrome or not
In []:	
In [62]:	MADAM #PEEP #MALYALAM #NOON Solution #Approch 1 string_name = input("Enter a String :")
	<pre>string_name = input("Enter a String :") reverse_string = string_name[::-1] if string_name==reverse_string: print("String is palindrome") else: print("String is not palindrome") Enter a String :hello String is not palindrome</pre>
In [69]:	
	<pre>if string_name==reverse_name: print("It is a palindrome string") else: print("It is not a palindrome string") Enter a String :MAM M</pre>
	MA MAM It is a palindrome string Python Program to Check weather a given string is Anangram or Not
In []:	<pre>#Anagram or Not exmaple> Listen> siLent , RACEs>CARES Listen> silent sorted()> sorted(silent) All the letters of the given words are present in another word then it is an angram string else not.</pre>
	Logic: Sort both the Strings: LISTEN> EILNST SILENT> EILNST
In [71]:	<pre>Solution string_name = input("Enter a String ") string2_name=input("Enter second string ") if sorted(string_name)==sorted(string2_name):</pre>
	<pre>print("It is a anangram string") else: print("It is not an anangram string") Enter a String HELLO Enter second string Hi It is not an anangram string</pre>
	Write a Python program which iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and for the multiples of five
	print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz". Solution
In [72]:	<pre>for i in range(1,50): if i%3==0: print("Fizz") elif i%5==0: print("Buzz") elif i%3==0 and i%5==0: range(1,50):</pre>
	<pre>print("FizzBuzz") Fizz Buzz Fizz Fizz Fizz Fizz Fizz Fizz</pre>
	Fizz Fizz Buzz Fizz Buzz Fizz Fizz Fizz Fizz
	Fizz Fizz Fizz Buzz Fizz Buzz Fizz Buzz
	Write a Python program which will return all the different unique vowels that are present
	in the given string.
	Test Case: 1.String may be in upper case or lowr case
	2.Answer must give unquie vowels list3.If any string is having n repeating characters then that character will be considered
In [79]:	2.Answer must give unquie vowels list 3.If any string is having n repeating characters then that character will be considered only once. Solution string_name=input("Enter a String: ")
In [79]: Out[79]:	2. Answer must give unque vowels list 3. If any string is having n repeating characters then that character will be considered only once. Solution string_name=input("Enter a String: ") set1 = set(string_name) set2 = {"a", "e", "i", "u", "o"} set3 = set1. intersection(set2) list(set3) Enter a String: MayAnk
	2. Answer must give unque vowels list 3. If any string is having n repeating characters then that character will be considered only once. Solution string_name=input("Enter a String: ") set1 = set(string_name) set2 = {"a", "e", "i", "u", "o"} set3 = set1. intersection(set2) list(set3) Enter a String: MayAnk
	2. Answer must give unqiue vowels list 3. If any string is having n repeating characters then that character will be considered only once. Solution string_name=input("Enter a String: ") set1 = set(string_name) set2 = {"a","e","","u","o"} set3 = set4:\intersection(set2) list(set3) Program to find the ASCII value of the given character Solution
Out[79]:	2.Answer must give unqiue vowels list 3.If any string is having n repeating characters then that character will be considered only once. Solution string name input ("Enter a String: ") set1 = sec(string,name) set2 = sec(string,name) set3 = set1 intersection(set2) list(set3) Enter a String: MayAnk ["a"] Program to find the ASCII value of the given character Solution string_name input ("Enter a String:") #Hello world for 1 in string_name: print(ord(s),ender") Enter a String: hello world 104 101 108 100 111 32 110 111 114 100 100 Python Program to find the factors of the number
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Out[79]:	2.Answer must give unqiue vowels list 3.If any string is having n repeating characters then that character will be considered only once. Solution String_nume=input("Enter a String: ") SetTage_1 intersection(set2) List(set2) Enter a String: May/nk ['a'] Program to find the ASCII value of the given character Solution String_nume=input("Enter a String:") #Ne2Io world for 1s string_nume; prolifect(); sed=") Enter a String: hello world 364 101 306 106 113 32 119 113 114 108 100 Python Program to find the factors of the number 15> 1, 2 5 40 For 1s careging: hello world 16> 1, 2 5 4, 5, 8, 12, 24 For 1s careging(1, 12): # 1 2 3 4 5 6 7 8 9 40 For 1s careging(1, 12): # 1 2 3 4 5 6 7 8 9 40 For 1s careging(1, 12): # 1 2 3 4 5 6 7 8 9 40 For 1s careging(1, 12): # 1 2 3 4 5 6 7 8 9 40 Solution
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