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| N0 | problems |
|  | Design and implement a program  1) To prompt the user for hours and rate per hour to compute gross pay  2) To print the python version that is used. |
|  | Design and implement a python program to get a new string from a give string where ‘is’ has been added to the front. If the string already begins with “is” the return the string unchanged. |
|  | Design and implement a program that evaluates the value of the quadratic equation ax2+bx+c by prompting the user to enter the values of a,b,c and x. |
|  | Write a Python program to check a triangle is equilateral, isosceles or scalene. |
|  | design and implement a python program that accepts an integer n and computes the value of n+nn+nnn |
|  | Design and implement a python program to test whether a number is within 100 of 1000 0r 2000. |
|  | Write a program that sums a series of (positive) integers entered by the user, excluding all numbers that are greater than 100. |
|  | Write a python program that asks the user how many coins of various types they have, and then print the total amount of money in rupees. |
|  | Write a Python program to get the Fibonacci series between 0 to 50. |
|  | Write a python program to check for validity of the password using if statement. |
|  | Write a Python program in which a student enters the number of college credits earned. If the number of credits is greater than 90, 'Senior Status' is displayed; if greater than 60, 'Junior Status' is displayed; if greater than 30, 'Sophomore Status' is displayed; else, 'Freshman Status' is displayed. |
|  | 2) Design and implement a program to count the number of individual characters in a string.  Sample string:”yahoo.com”  Result:{‘0’:3,’y’:1,’.’:1,’a’:1,’h’:1,’m’:1,’c’:1} |
|  | Write a program that sums a series of integers entered by the user, excluding all numbers that are greater than 100. |
|  | Write a Python program which takes two digits m (row) and n (column) as input and generates a two-dimensional array. The element value in the i-th row and j-th column of the array should be i\*j.  Test Data : Rows = 3, Columns = 4  Expected Result : [[0, 0, 0, 0], [0, 1, 2, 3], [0, 2, 4, 6]] |
|  | Write a Python program to find numbers between 100 and 400 (both included) where each digit of a number is an odd number. The numbers obtained should be printed in a comma-separated sequence |
|  | Write a Python program that accepts a word from the user and reverse it. |
|  | Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included). |
|  | Write a Python program to construct the following pattern, using a nested for loop.  \*  \* \*  \* \* \*  \* \* \* \*  \* \* \* \* \*  \* \* \* \*  \* \* \*  \* \*  \* |
|  | Write a Python program that allows the user to enter a four-digit binary number and displays its value in base 10. Each binary digit should be entered one per line, starting with the leftmost digit , as shown below.  Enter leftmost digit: 1 Enter the next digit: 0  Enter the next digit: 0 Enter the next digit: 1  The value is 9 |
|  | Write a Python program to check the validity of password input by users. Go to the editor  Validation :  At least 1 letter between [a-z] and 1 letter between [A-Z].  At least 1 number between [0-9].  At least 1 character from [$#@].  Minimum length 6 characters.  Maximum length 16 characters |
|  | Write a Python program to find numbers between 100 and 400 (both included) where each digit of a number is an even number. The numbers obtained should be printed in a comma-separated sequence |
|  | Write a Python program that accepts a string and calculate the number of digits and letters.  Sample Data : Python 3.2 Expected Output : Letters 6  Digits 2 |
|  | a) Write a Python program to convert temperatures to and from celsius, fahrenheit. [ Formula : c/5 = f-32/9 [ where c = temperature in celsius and f = temperature in fahrenheit ]  Expected Output : 60°C is 140 in Fahrenheit.45°F is 7 in Celsius |
|  | Write a Python program to count the number of even and odd numbers from a series of numbers |
|  | Write a Python program to check a string represent an integer or not.   Expected Output:  Input a string: Python  The string is not an integer. |
|  | Write a Python program to calculate the difference between the squared sum of first n natural numbers and the sum of squared first n natural numbers |
|  | Write a Python program to convert a decimal number to binary number. |
|  | Write a Python program to create the multiplication table (from 1 to 10) of a number. |
|  | Write a Python program to construct the following pattern, using a nested loop number  Expected Output:  1  22  333  4444  55555  666666  7777777 |
|  | Write a Python program to get a single string from two given strings, separated by a space and swap the first two characters of each string.  Sample String : 'abc', 'xyz'  Expected Result : 'xyc abz' |
|  | Write a Python program to count the number of even and odd numbers from a series of numbers. |
|  | Write a Python program to get a string from a given string where all occurrences of its first char have been changed to '$', except the first char itself.   Sample String : 'restart' Expected Result : 'resta$t' |