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Another Set of Code Challenges
4 messages

Forsk Labs <forsklabs@gmail.com>   Tue, Nov 27, 2018 at 12:16 PM
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```
"""

Code Challenge
 Name:
   Name Printing in English
 Filename:
   name_english.py
 Problem Statement:
   Print your First Name and Last Name in Quotation.
   Both the first name and Last name should be on different lines
 Hint:
   Use the Escape Code for quotation and new line
 Output:
   "Sylvester"
   "Fernandes"

"""



"""

Code Challenge
 Name:
   Temperature of City
 Filename:
   city_temp.py
 Problem Statement:
   Print the temperature of your city in Degree Celsius for the day
 Hint:
   Use \u00b0 as the unicode for Degree
 Output:
   26° C

"""



"""

Code Challenge
 Name:
   Unicode Printing
 Filename:
   unicode_print.py
 Problem Statement:
   Print the below string as it is
   UNIX® and Sun Microsystem™ are ©, 2018 Oracle
```

Hint:
  Use unicode \u00AE for Registered ®
  Use unicode \u00A9 for Copyright ©
  use unicode \u2122 for TradeMark ™
Output:
  26° C

"""

"""

Code Challenge
 Name:
   Name Printing in Hindi
 Filename:
   name_hindi.py
 Problem Statement:
   Print your First Name and Last Name in Devanagari Script (Hindi)
   with a comma in between
 Hint:
   http://jrgraphix.net/r/Unicode/0900-097F
 Output:
   सिल्वेस्टर , फनांडीस

"""

"""

Code Challenge
 Name:
   Name Printing Checkerboard pattern
 Filename:
   checker.py
 Problem Statement:
   Print the checkerboard pattern using escape Codes and Unicode
   with multiple print statements and the multiplication operator
 Hint:
   Eight characters sequence in a line and
   the next line should start with a space
 Output:
   * * * * * * * *
    * * * * * * * *
   * * * * * * * *
    * * * * * * * *
   * * * * * * * *
    * * * * * * * *
   * * * * * * * *

"""

"""

Code Challenge
 Name:

```
   BMI Help Screen
 Filename:
   bmi_help.py
 Problem Statement:
   Print the BMI Value Help Screen
 Hint:
    Use triple quotes syntax for formatted text
 Output:
   World Health Organisation's BMI VALUES ( 8 Levels )
     Severe Thinness: less than 16
     Moderate Thinness: between 16 and 16.9
     Mild Thinness: between 17 and 18.4
     Normal: between 18.5 and 24.9
     Overweight: between 25 and 29.9
     Obese Class I: between 30 and 34.9
     Obese Class II: between 35 and 39.9
     Obese Class III: 40 or greater

  """
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```
  """
 Code Challenge
  Name:
    Facorial
  Filename:
    factorial.py
  Problem Statement:
    Find the factorial of a number.
    Take the number from the keyboard as input from the user.
  Hint:
    Factorial of 3 = 3 * 2 * 1= 6
    Try to first find the function from math module using dir and help
  """


  """
 Code Challenge
  Name:
    Area and Perimeter of Circle
  Filename:
    circle.py
  Problem Statement:
    Take the radius of the circle from the keyboard as input from the user
    Calculate the area and perimeter of it.
  Hint:
    Pi * radius * radius is the area of circle
    2 * Pi * radius is the perimeter of circle
    Use math module to get the value of Pi ( 3.14 )
  """


  """
 Code Challenge
  Name:
```

```
      Styling of String
   Filename:
      style.py
   Problem Statement:
      Convert uppercase characters to lowercase
      Lowercase characters to uppercase ( swap case ) for the name.
      Take this name as input from the keyboard.
      Also convert the inputed string in CamelCase or TitleCase.
   Hint:
      Try to find some function in the str and see its help on how to use it.
"""



"""
Code Challenge
  Name:
     Replacing of Characters
  Filename:
     restart.py
  Problem Statement:
     In a hardcoded string RESTART, replace all the R with $ except the first occurrence and print it.
  Input:
       RESTART
  Output:
       RESTA$T
"""



"""
Code Challenge
  Name:
     String Handling
  Filename:
     string.py
  Problem Statement:
     Take first and last name in single command from the user and print  them in reverse order with a space
between them, find the index using find/index function and then print using slicing concept of the index
  Input:
       Sylvester Fernandes
  Output:
       Fernandes Sylvester
"""



"""
Code Challenge
  Name:
     BMI in Hindi
  Filename:
     bmi_cal_hindi.py
  Problem Statement:
     Convert the BMI program to use hindi titles while taking input and print weight, height and BMI in Hindi
script using formatted strings concept
  Hint:
       Create a copy of the old bmi_cal.py program and do modification
"""



"""
Code Challenge
  Name:
```

    Formatted String
  Filename:
    format.py
  Problem Statement:
    This program prints out the following string in a specific format (see the output).
  Hint:
    The string should be printed using a single print statement only and the indexes shouldn't be counted
manually.
  Input:
    mystr ="""
    This is a multi line string. This code challenge is to
    test your understanding about strings.
    You need to print some part of this string.
    From here print this text without manually counting the indexes."""
  Output:
    From here print this text without manually counting the indexes.
"""

"""
Code Challenge
  Name:
    Formatted String
  Filename:
    format2.py
  Problem Statement:
    Write a program to print the output in the given format.
    Take input from the user.
  Hint:
    Try to serach for some function in the str using help() and dir()
  Input:
    Welcome to Pink City Jaipur
  Output:
    Welcome*to*Pink*City*Jaipur
"""

"""
Code Challenge
  Name:
    Formatted String
  Filename:
    format3.py
  Problem Statement:
    Write a program to print the output in the given format.
    Take input from the user.
  Hint:
    Try to serach for some function in the str using help() and dir()
  Input:
    Welcome to Pink City Jaipur
  Output:
    W*e*l*c*o*m*e* *t*o* *P*i*n*k* *C*i*t*y* *J*a*i*p*u*r
"""

"""
Code Challenge
  Name:
    Formatted String
  Filename:
    format4.py
  Problem Statement:

This program accepts the user's first name and last name
Print them in reverse order with a space between them.
Take Input from User
Your code should have only a single user input statement.
Hint:
Try to serach for some function in the str using help() and dir()
Input:
Forsk Technologies
Output:
Technologies Forsk
"""

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"""
Code Challenge
Name:
Vowels Finder
Filename:
vowels.py
Problem Statement:
Remove all the vowels from the list of states
Hint:
state_name = ['Alabama', 'California', 'Oklahoma', 'Florida']
"""

"""
Code Challenge
Name:
Pattern Builder
Filename:
pattern.py
Problem Statement:
Write a Python program to construct the following pattern.
Take input from User.
Input:
5
Output:
Below is the output of execution of this program.
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
"""

"""
Code Challenge

Name:
  Pallindromic Integer
Filename:
  pallindromic.py
Problem Statement:
  You are given a space separated list of integers.
  If all the integers are positive and if any integer is a palindromic integer, then you need to print True
else print False.
  (Take Input from User)
Hint: What is pallindromic Integer
Input:
  12 9 61 5 14
Output:
  True
"""

"""
Code Challenge
 Name:
  Pangram
 Filename:
  pangram.py
 Problem Statement:
  Write a Python function to check whether a string is PANGRAM or not
  Take input from User and give the output as PANGRAM or NOT PANGRAM.
 Hint:
  Pangrams are words or sentences containing every letter of the alphabet at least once.
  For example: "The quick brown fox jumps over the lazy dog" is a PANGRAM.
 Input:
  The five boxing wizards jumps.
 Output:
  NOT PANGRAM
"""

"""
Code Challenge
 Name:
  Bricks
 Filename:
  bricks.py
 Problem Statement:
  We want to make a row of bricks that is target inches long.
  We have a number of small bricks (1 inch each) and big bricks (5 inches each).
  Make a function that prints True if it is possible to make the exact target by choosing from the given
bricks or False otherwise.
  Take list as input from user where its 1st element represents number of small bricks, middle element
represents number of big bricks and 3rd element represents the target.
 Input:
  2, 2, 11
 Output:
  True
"""

"""
Code Challenge
 Name:
  Reverse Function
 Filename:

    reverse.py
  Problem Statement:
    Define a function reverse() that computes the reversal of a string.
    Without using Python's inbuilt function
    Take input from User
  Input:
    I am testing
  Output:
    gnitset ma I
"""

"""
Code Challenge
  Name:
    Fizz Buzz
  Filename:
    fizzbuzz.py
  Problem Statement:
    Write a Python program which iterates the integers from 1 to 50(included). 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".
    User Input not required
  Output:
    1
    2
    Fizz
    4
    Buzz
"""

"""
Code Challenge
  Name:
    Translate Function
  Filename:
    translate.py
  Problem Statement:
    Write a function translate() that will translate a text into "rövarspråket"
    Swedish for "robber's language".
    That is, double every consonant and place an occurrence of "o" in between.
    Take Input from User
  Input:
    This is fun
  Output:
    ToThohisos isos fofunon
"""

"""
Code Challenge
  Name:
    Operations Function
  Filename:
    operation.py
  Problem Statement:
    Write following functions for list operations. Take list as input from the User
    Add(), Multiply(), Largest(), Smallest(), Sorting(), Remove_Duplicates(), Print()
    Only call Print() function to display the results in the below displayed
    format (i.e all the functions must be called inside the print() function and only the Print() is to be called
in the main script)

  Input:
    5,2,6,2,3

```
    Output:
      Sum = 18
      Multiply = 360
      Largest = 6
      Smallest = 2
      Sorted = [2, 2, 3, 5, 6]
      Without Duplicates = [2, 3, 5, 6]
"""


"""
    Code Challenge
     Name:
      Supermarket
     Filename:
      supermarket.py
     Problem Statement:
      You are the manager of a supermarket.
      You have a list of items together with their prices that consumers bought on a particular day.
      Your task is to print each item_name and net_price in order of its first occurrence.
      Take Input from User
     Hint:
      item_name = Name of the item.
      net_price = Quantity of the item sold multiplied by the price of each item.
     Input:
      BANANA FRIES 12
      POTATO CHIPS 30
      APPLE JUICE 10
      CANDY 5
      APPLE JUICE 10
      CANDY 5
      CANDY 5
      CANDY 5
      POTATO CHIPS 30
     Output:
      BANANA FRIES 12
      POTATO CHIPS 60
      APPLE JUICE 20
      CANDY 20

"""


"""
    Code Challenge
     Name:
      Sorting
     Filename:
      sorting.py
     Problem Statement:
      You are required to write a program to sort the (name, age, height) tuples by ascending order where
    name is string, age and height are numbers.
      The tuples are input by console. The sort criteria is:
      1: Sort based on name;
      2: Then sort based on age;
      3: Then sort by score.
      The priority is that name > age > score
     Input:
      Tom,19,80
      John,20,90
      Jony,17,91
      Jony,17,93
```

```
      Json,21,85
    Output:
    [('John', 20, 90), ('Jony', 17, 91), ('Jony', 17, 93), ('Json', 21, 85), ('Tom', 19, 80)]
"""


"""
Code Challenge
  Name:
    Teen Calculator
  Filename:
    teen_cal.py
  Problem Statement:
    Take dictionary as input from user with keys, a b c, with some integer
    values and print their sum. However, if any of the values is a teen --
    in the range 13 to 19 inclusive -- then that value counts as 0, except
    15 and 16 do not count as a teens. Write a separate helper "def
    fix_teen(n):"that takes in an int value and returns that value fixed for
    the teen rule. In this way, you avoid repeating the teen code 3 times
  Input:
    {"a" : 2, "b" : 15, "c" : 13}
  Output:
    Sum = 17
"""

"""
Code Challenge
  Name:
    Character Frequency
  Filename:
    frequency.py
  Problem Statement:
    This program accepts a string from User and counts the number of characters (character frequency) in
the input string.
  Input:
    www.google.com
  Output:
    {'c': 1, 'e': 1, 'g': 2, 'm': 1, 'l': 1, 'o': 3, '.': 2, 'w': 3}
"""

"""
Code Challenge
  Name:
    Digit Letter Counter
  Filename:
    digit_letter_counter.py
  Problem Statement:
    Write a Python program that accepts a string from User and calculate the number of digits and letters.
  Hint:
    Store the letters and Digits as keys in the dictionary
  Input:
    Python 3.2
  Output:
    Letters 6
    Digits 2
"""

"""
Code Challenge
  Name:
    Centered Average
  Filename:
```

centered.py
Problem Statement:
  Return the "centered" average of an array of integers, which we'll say is the mean average of the
values, except ignoring the largest and smallest values in the array. If there are multiple copies of the
smallest value, ignore just one copy, and likewise for the largest value. Use int division to produce the
final average. You may assume that the array is length 3 or more.
  Take input from user
Input:
  1, 2, 3, 4, 100
Output:
  3
"""

"""
Code Challenge
 Name:
  Unlucky 13
 Filename:
  unlucky.py
 Problem Statement:
  Return the sum of the numbers in the array, returning 0 for an empty array. Except the number 13 is
very unlucky, so it does not count and numbers that come immediately after a 13 also do not count
  Take input from user
 Input:
  13, 1, 2, 13, 2, 1, 13
 Output:
  3
"""

"""
Code Challenge
 Name:
  Intersection
 Filename:
  Intersection.py
 Problem Statement:
  With two given lists [1,3,6,78,35,55] and [12,24,35,24,88,120,155]
  Write a program to make a list whose elements are intersection of the above given lists.
"""

"""
Code Challenge
 Name:
  Duplicate
 Filename:
  duplicate.py
 Problem Statement:
  With a given list [12,24,35,24,88,120,155,88,120,155]
  Write a program to print this list after removing all duplicate values with original order reserved
 Hint:
  Distance = (Acceleration*Time*Time) / 2
"""

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