**T1934 Set 2**

* write a Python program using a for loop to count the number of occurrences of each character in the string
* Write a Python program that finds the prime factorization of a number. If any prime factor is found, print it and exit the loop using break. If the number is prime, print Prime number.
* Write a Python program that counts the number of vowels in a given string. Use the continue statement to skip non-vowel characters.
* Write a program for Counting Special Characters in a String
* Write a program that generates and prints the multiplication table (1 to 10) in the following format using for loop:

{1 2 3 4 5 6 7 8 9 10

2 4 6 8 10 12 14 16 18 20}

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write a Python program using a for loop to count the number of occurrences of each character in the string

ans)

s = "hello world"

char\_count = {}

for char in s:

char\_count[char] = char\_count.get(char, 0) + 1

print(char\_count)

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Write a Python program that counts the number of vowels in a given string. Use the continue statement to skip non-vowel characters.

ans)

s = "Hello World"

vowels = "aeiouAEIOU"

count = 0

for char in s:

if char not in vowels:

continue

count += 1

print("Number of vowels:", count)

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Write a program that generates and prints the multiplication table (1 to 10) in the following format using for loop:

{1 2 3 4 5 6 7 8 9 10

2 4 6 8 10 12 14 16 18 20}

ans)

num = (1,2,3,4,5,6,7,8,9,10)

n = 2

for x in num:

mul = n \* x

print(mul)

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Write a program for Counting Special Characters in a String

ans)

s = "$ury@"

count = 0

for x in s:

if ( x ==

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Write a Python program that finds the prime factorization of a number. If any prime factor is found, print it and exit the loop using break. If the number is prime, print Prime number.

ans)

n = (1,2,3,4,5,6,7,8,9)

for x in n:

if(n %% 1 && n %%n):

break;

print(x + " is a prime number")

else:

print(x+" is not a prime number")