<pre>for i in range(1,n+1,2): print(i,end=' ')</pre>
Enter a number that is greater than 10 :14
1 3 5 7 9 11 13
Q2.Write a program to accept an integer n greater than 10. Then print all the prime numbers from to n.
<pre>m=int(input('Enter a number :')) while m<10:</pre>
<pre>m=int(input('Enter a number :')) for n in range(2,m): count=0 for i in range(2,((n//2)+1)):</pre>
<pre>if(n%i==0): count=count+1 break else:</pre>
<pre>print(n,end=' ') Enter a number :12 2 3 5 7 11</pre>
Q3.In this exercise you will create a program that computes the average of a collection of values entered by the user. The user will enter 0 as a sentinel value to indicate that no further values will provided. Your program should display an appropriate error message if the first value entered by user is 0.
print("input some integers to calculate their sum and average>input 0 to exit.") count=0 sum=0.0 number=1
<pre>while number !=0: number=int(input("")) sum=sum+number</pre>
<pre>count+=1 if count ==0: print('input some numbers')</pre>
else: print("average and sum of the above numbers are:",sum/(count-1),sum) input some integers to calculate their sum and average>input 0 to exit.
0 average and sum of the above numbers are: 7.5 30.0
Q4.Write a program that takes a number as input and prints its multiplication table.
<pre>num=int(input('Enter the number ')) for i in range(1,10):</pre>
<pre>print(num,'x',i,'=',num*i) Enter the number 13 13 x 1 = 13</pre>
$13 \times 1 = 13$ $13 \times 2 = 26$ $13 \times 3 = 39$ $13 \times 4 = 52$ $13 \times 5 = 65$
13 x 6 = 78 13 x 7 = 91 13 x 8 = 104
13 x 9 = 117
Q5.Write a program that displays a temperature conversion table for degrees Celsius and degrees Fahrenheit. The table should include rows for all temperatures between 0 and 100 degrees Celsius
that are multiples of 10 degrees Celsius. Include appropriate headings on your columns.
<pre>print(' F C') for C in range(0,100,10): F=9 * C / 5 + 32 print('%4.0f %4.0f' % (F , C))</pre>
F C 32 0
50 10 68 20 86 30 104 40
122 50 140 60 158 70 176 80
194 90
Q6.A string is a palindrome if it is identical forward and backward. For example "anna", "civic", "le
and "madam" are all examples of palindrome words. Write a program that reads a string from the user and uses a loop to determine whether or not it is a palindrome. Display the result, including
meaningful output message.
<pre>str1=input('Enter the string:') rev=str1[::-1] for i in range(len(str1)):</pre>
if str1[i] =rev[i]·
<pre>if str1[i]!=rev[i]: print('The string ',str1,'is not a palindrome') break</pre>
<pre>print('The string ',str1,'is not a palindrome')</pre>
print('The string ',str1,'is not a palindrome') else: print('The string ',str1,'is a palindrome') Enter the string:civic The string civic is a palindrome Q7.The greatest common divisor (GCD) of two positive integers, n and m, is the largest number, d which divides evenly into both n and m. The following algorithm is used to find GCD of n and m:
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Q8. The prime factorization of an integer, n, can be determined using the following steps: Initialize factor to two While factor is less than or equal to n do If n is evenly divisible by factor then # Conclude that factor is a factor of n Divide n by factor using integer division Else Increase factor by one
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