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#ques 1. Write a Python function that takes a list of numbers as input and returns the sum of all even numbers in the list.
def sum_even_numbers(numbers):
    sum = 0
    for num in numbers:
        if num % 2 == 0:
            sum += num
    return sum
numbers=(2,3,4,5,7,9)
result=sum_even_numbers(numbers)
print(result)
→ 6
#ques 2. Create a Python function that accepts a string and returns the reverse of that string.
def reverse_string(d):
 print (d[::-1])
d=("mansi kundu")
s=reverse_string(d)
print()

→ udnuk isnam

#ques 3. Implement a Python function that takes a list of integers and returns a new list containing the squares of each number
1=[3,4,5,6]
def sq(x):
    return x**2
list(map(sq,1))
→ [9, 16, 25, 36]
#ques 4. Write a Python function that checks if a given number is prime or not from 1 to 200
l=range(1,201)
for i in 1:
    if i>1:
        for j in range(2,i):
            if (i\%j)==0:
                break
        else:
            print(i)
₹
    2
     11
     13
     17
     19
     23
     29
     31
     37
     41
     43
     47
     53
     59
     61
     67
     71
     73
     79
     83
     89
     97
     101
     103
     107
     109
     113
     127
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137
     139
     149
     151
     157
     163
     167
     173
     179
     181
     191
     193
     197
     199
#ques 5. Create an iterator class in Python that generates the Fibonacci sequence up to a specified number of terms
temp=lambda n:n if n<=1 else temp(n-1)+temp(n-2)
[temp(i) for i in range(10)]
→ [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]
#ques 6. Write a generator function in Python that yields the powers of 2 up to a given exponent
i=5
def power(n):
    for i in range(n+1):
       yield 2**i
#ques 8. Use a lambda function in Python to sort a list of tuples based on the second element of each tuple.
m=[("mansi"),("tuple"),("course")]
sorted(m,key=lambda x:x[1])
→ ['mansi', 'course', 'tuple']
#ques 9. Write a Python program that uses `map()` to convert a list of temperatures from Celsius to Fahrenheit
celsius=[23,45,67,89]
def sq(Celsius):
    return (Celsius*9/5)+32
list(map(sq,celsius))
→ [73.4, 113.0, 152.6, 192.2]
#ques 10. Create a Python program that uses `filter()` to remove all the vowels from a given string
l=["mansi kundu"]
list(filter(lambda x: x not in "aeiou",l[0]))
→ ['m', 'n', 's', ' ', 'k', 'n', 'd']
Start coding or generate with AI.
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