Euler Project #1,2,5

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# Problem 1
def isNice(x):
    if x \% 3 == 0:
         return true
    if x \% 5 = 0:
         return true
    return false
sum = 0
for i in [0..999]:
    if isNice(i):
         sum += i
sum
233168
# Problem 2
seq = [1, 2]
sum = 3
f \text{ term} = 2
even\_sum = 2
while f_{term} < 4000000:
    term_1 = seq[len(seq)-2]
    term_2 = seq[len(seq)-1]
    f_{term} = term_1 + term_2
    seq.append(f_term)
    sum = sum + f_term
    if f_{\text{term}} > 4000000:
        sum = sum - f_term
    else:
         if f_term\%2==0:
             even\_sum = even\_sum + f\_term
print (even_sum)
4613732
# Problem 5
primeProduct = 2*3*5*7*11*13*17*19
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newProduct = primeProduct
multiplier = 1
divisor = 1
limit = 20
while divisor<limit:
    if newProduct % divisor == 0:
        divisor = divisor + 1
    else:
        newProduct = primeProduct * multiplier
        divisor = 1
        multiplier = multiplier + 1
print(newProduct)</pre>
```