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# 1) WAP that calculates the sum of digits of a number.
num=int(input("Enter a number."))
S=0
while num!=0:
    r=num%10
    s=s+r
    num=num//10 # "//" is integer division, that is it gives integer
value by removing decimals.
print("The sum of digits is",s)
# 2) WAP to generate the Fibonacci series up to a given number of
terms.
num=int(input("Enter the number of iterations"))
a=0
h=1
print("The Fibonacci series is:",end="")
print(a,"",end="")
for i in range(0,num):
    c=b
    b=a+b
    a=c
    print(b,"",end="")
# 3) WAP to check if a number is a perfect number.
# (Perfect numbers are equal to the sum of all of their factors except
the numbers themselves.)
num=int(input("Enter a number."))
S=0
for i in range(1,num):
    if num\%i == 0:
        s=s+i
if s==num:
    print(num, "is a perfect number")
else:
    print(num, "is not a perfect number")
# 4) WAP to check if a given number is palindrome or not.
num=int(input("Enter a number"))
a=0
b=num
C=0
while num!=0:
    c=num%10
    num = num / / 10
    a=(a*10)+c
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if a==b:
   print(b,"is palindrome.")
else:
    print(b,"is not palindrome")
# 5) WAP to find the Greatest Common Divisor(GCD) of two numbers.
# GCD of two numbers is the greatest number that can divide both of
those numbers perfectly.
a=int(input("Enter a number"))
b=int(input("Enter a number"))
q=0
d=0
qcd=0
#Checking for the greatest number to put in the range() function.
if a>b:
    g=a
else:
    q=b
for i in range(1,g):
   if (a\%i==0 and b\%i==0 and i>d):
        acd=i
print("The greatest common divisor between",a,"and",b,"is",gcd)
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