Python Programming <u>Day-1</u>

1) Palindromenum="12321" a=num[::-1] if num==a: print("Palindrome") else: print("Not a palindrome") 2) Prime or Notnum=29 flag=True if(num==1): print("Not a prime") elif(num>1): for i in range(2,num): if(num%i==0): flag=False

break

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if flag:
    print("prime number")
  else:
    print("Not a prime number")
  3) Factorial-
num=5
fact=1
for i in range(1,num+1):
  fact=fact*i
print(fact)
  4) Fibonacci series-
num=10
t1=0
t2=1
print(t1,t2,end=" ")
for i in range(3,num+1):
  nextTerm=t1+t2
  t1=t2
  t2=nextTerm
  print(nextTerm,end="
  5) <u>Sum-</u>
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n=1234
sum=0
while n!=0:
 sum=sum+n%10
 n//=10
print(sum
  6) Multiplication Table-
n=5
for i in range(1,6):
  print(n,"x",i,"=",n*i)
  7) LCM and GCD-
a=3
b=12
num1=a
num2=b
while(num2!=0):
 rem=num1%num2
 num1=num2
 num2=rem
print("GCD",num1)
print("lcm",a*b//num1)
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8) Prime number in given range-

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a=3
while(a<15):
  for i in range(2,a):
    if(a%i==0):
      break
   if(i==a-1):
      print(a)
    a+=1
  9) Leap Year or Not-
a=2024
if(a%4==0):
  print("leap year")
else:
  print("not a leap year")
           Tech Number or Not-
   10)
num=3025
temp=num
tem=num
count=0
while temp!=0:
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temp//=10
count+=1

if count%2==0:
    a=tem%100
    b=tem//100
    add=a+b
    sq=add*add
    if(sq==num):
        print("Tech number")
    else:
        print("Not a Tech number")
```