2.8.24 HOME TASK

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#1
num=input("Enter a Number :")
if num==num[::-1]:
  print(f"{num} is a Palindrome")
else:
  print(f"{num} is not a palindrome")
#2
import math
n1=int(input("Enter a number : "))
n2=int(input("Enter a number : "))
sum=1
for x in range(1,n2+1):
  term=(n1**x)/(math.factorial(x))
  sum+=term
print(f"Sum of series : ",sum)
#3
number=int(input("Enter a number : "))
product=1
while number>0:
  a=number%10
  product=product*a
  number=number//10
print(f"Product of digits : ",product)
#4
no=int(input("Enter a number : "))
factorial=1
for i in range(1,no+1):
  factorial*=i
print(f"Factorial of a number : ",factorial)
#5
num=int(input("Enter a number : "))
for a in range(2,num//2):
```

```
if num%a==0:
    print("Not a prime")
    break
else:
    print("Prime number")
#6
5
6
7
8
#7
Ρ
у
t
h
0
n
#8
P ?$
y ?$
t ?$
h ?$
o ?$
n ?$
#9
64
121
196
289
400
#10
digit=int(input("Enter a number : "))
for x in range(1,digit+1):
   for y in range(1,x+1):
      print(y,end=" ")
```

```
print()

#11
for i in range(100,501):
    if number%11==0 and number%2!=0:
        print(i)
```