1.

rows = 5  
for i in range(rows, 0, -1):  
 for j in range(1, i + 1):  
 print(j, end=' ')  
 print()

o/p

C:\Users\admin\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\admin\PycharmProjects\pythonProject\main.py

1 2 3 4 5

1 2 3 4

1 2 3

1 2

1

Process finished with exit code 0

num = int(input("enter a no:"))  
temp = num  
reverse = 0  
while temp > 0:  
 remainder = temp % 10  
 reverse = (reverse \* 10) + remainder  
 temp = temp // 10  
if num == reverse:  
 print('Palindrome')  
else:  
 print("Not Palindrome")

o/p

C:\Users\admin\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\admin\PycharmProjects\pythonProject\main.py

enter a no:1234

Not Palindrome

Process finished with exit code 0

o/p2

C:\Users\admin\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\admin\PycharmProjects\pythonProject\main.py

enter a no:12321

Palindrome

Process finished with exit code 0

3.

for i in range(5):  
 for j in range(i + 1):  
 print(2, end='')  
 print('\n+')  
  
number\_of\_terms = 5  
sum1=0  
for i in range (1, number\_of\_terms + 1):  
 sum1 += int('2' \* i)  
print("=", sum1)

o/p

C:\Users\admin\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\admin\PycharmProjects\pythonProject\main.py

2

+

22

+

222

+

2222

+

22222

+

= 24690

Process finished with exit code 0