

Script started on 2023-10-10 10:58:50-05:00 [TERM="xterm-256color" TTY="/dev/pts/1" COLUMNS="143" LINES="46"]

```
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m: [01;34m~/CLA[00m$
[K(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m: [01;34m~/CLA[00m$
[K(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m: [01;34m~/CLA[00m$
[K(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m: [01;34m~/CLA[00m$ cat -n pytha
gorean.py
[?2004l
```

```

1 #Tyler Sabin
2 #October 10, 2023
3 #Section 006
4 #CLA4_5
5 #This program will print all triples up to a hypo. of 30. It will also ensure that there are no duplicates
6
7 hyp = 2
8 hypMax = 30
9 side1 = 1
10 side2 = 1
11 hyp2 = 1
12
13 print('Hyp','Side 1','Side 2',sep='\t')
14
15 for hyp in range(2,hypMax):
16     for side1 in range(1,hypMax):
17         for side2 in range(1,hypMax):
18             if ((side1 ** 2) + (side2 ** 2)) == (hyp ** 2) and side1 < side2:
19                 print(hyp,side1,side2,sep='\t')

```

Hyp	Side 1	Side 2
5	3	4
10	6	8
13	5	12
15	9	12
17	8	15
20	12	16
25	7	24
25	15	20
26	10	24
29	20	21

```
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CLA[00m$ cat -n factorial.py
[?2004l
```

```

1 #Tyler Sabin
2 #October 10, 2023
3 #Section 006
4 #CLA4_5
5 #This program will take an int input and print the num's factorial with a for & while loop
6
7 num = int(input("Enter a non-negative integer: "))
8 total = 1
9 total2 = 1
10
11 for i in range(1,num+1):
12     total *= i
13
14 print(f'The factorial value using for loop is equal {total}')
15
16 while num > 0:
17     total2 *= num
18     num -= 1
19
20 print(f'Factorial value using while loop is equal {total2}')[?2004h(base) ]0;jovyan@jupyter-tes4j:
~/CLA[01:32m] jovyan@jupyter-tes4j[00m: [01:34m~/CLA[00m$ python3.10 f

```

[illegible]

```
bash: factorial.py: command not found
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CLA[00m$ python3.10 factorial.py
[?2004l
Enter a non-negative integer: 9
The factorial value using for loop is equal 362880
Factorial value using while loop is equal 362880
[?2004h(base) ]0;jovyan@jupyter-tes4j: ~/CLA[01;32mjovyan@jupyter-tes4j[00m:[01;34m~/CLA[00m$ exit
[?2004l
exit
```

