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1 """
2 Dr. Schenk
3 CTAERN CLASS
4 9 FEBRUARY 2023
5 Hello World in Python
6 """
7
8
9 #Preprocessor Directives
10 import os, sys, random
11
12 #Main method
13 def main():
14
15     #Simple print
16     print("Hello, World!")
17
18     #Basic input
19     name = input("What is your first name?: ")
20     print("Hello, {0}.".format(name))
21
22     answer = input("Enter a number: ")
23     ans = int(answer)
24
25     #While Loops
26     while(ans<10):
27         print(ans)
28         ans = ans + 1
29
30     #Random integer
31     pyr = random.randint(0,25)
32
33     #Simple conditional
34     if (pyr<14):
35         print("Very small pyramid: {0}".format(pyr))
36     else:
37         print("Larger pyramid: {0}".format(pyr))
38
39     # "For Looping" in Python
40     for x in range(pyr):
41         for y in range(x):
42             print("X", end="")
43         print()
44
45
46     for y in range(10, 0-1, -1):
47         print(y)
48
49     for z in range(0, 50+1, 10):
50         print(z)
51
52     #Testing for equality is ==
53     #Testing for inequality is != also NOT
54
55 #Main entry point
56 if(__name__=="__main__"):
57     main()
58
59
60
61
62
63
64
```