**Conditional Loops – Day 1 \*\* Save all your programs\*\***

1. Determine the output of each program. Explain.

|  |  |
| --- | --- |
|  | x = 10  while (x > 0):     print("\*" \* x)     x -= 2  print("Done.")  \*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*  \*\*\*\*\*\*  \*\*\*\*  \*\*  Done. |

a)

|  |  |  |  |
| --- | --- | --- | --- |
|  | x = 5  y = 3  while (x > 0) and (y > 0):     print(x + y)     x -= 1     y -= 1  print("Done.")  8  6  4  Done.   |  |  | | --- | --- | |  | x = 10  while (x > 10):     x += 1     print("\*")  print("Done.") | |

b)

c)

Done.

|  |  |
| --- | --- |
|  | x = 1  while (x > 0):     x += 1     print(x)  print("Done.")  1  2  etc |

d)

1. Write a program that multiplies a given integer by three until it exceeds 10000.
2. a) Write a program that keeps asking the user for their name until they enter "Tim".  Otherwise, keep saying "You are not Tim!" and ask for their name.

b) Allow your name as a valid input as well.

c) Keep track of how many times the user fails to enter the correct name, and report it when they finally get it right.

1. Write a program that asks the user the same single, simple, math problem until they get it right.