CS1 - Exercise 1

**1. Write down what each of the following pieces of code prints out. If there is an error in the code, describe the error.**

**(a)**

a = 4

if a = 4:

a + 1

print(a)

**(b)**

count = 0

x = 3

while count < 5:

count = count - 1

x + 2

print(x)

**(c)**

def get\_2():

return 2

def get\_3():

return 3

print(get2 + get3)

**(d)**

x = 10

if x % 2 == 0:

x + 5

elif x % 5 == 0:

x - 1

else:

x - 12

print(x)

**(e)**

a = 5

x = a

a = a + 3

print(x, a)

**2. Write two different examples of a while loop that never terminates.**

**3.** **(a) Write a function called select\_emotion() that takes an integer, x, as its input, and returns:**

**"ok" when x is 0**

**"happy" when x is positive**

**"sad" when x is negative**

**(b) Use your newly created function within the parameters of a print() function. Print out the following sentence "I am feeling happy today."**