

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."