

**San Francisco Bay University**

**CS250L - Introduction to Programming Lab**

**Lab#1 Basic Functions**

1. What would you get from the following statements?

>>> True and 1 / 0 and False

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>>> True or 1 / 0 or False

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>>> True and 0

\_\_\_\_\_\_

>>> False or 1

\_\_\_\_\_\_

>>> 1 and 3 and 6 and 10 and 15

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>>> 0 or False or 2 or 1 / 0

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1. What is result when the following program is executed?

>>> def welcome():

... print('Welcome to', end=' ')

... return 'Hello'

...

>>> def CS250():

... print('CS250')

... return 'Python'

...

>>> print(welcome(), CS250())

1. What would Python print?

>>> x = 6

>>> def foo1(x):

... print(x)

...

>>> def foo2(x):

... y = x

... x = 7

... print(x)

...

>>> y = foo1(x)

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>>> foo2(x)

\_\_\_\_\_\_

>>> y + foo1(8)

1. What would Python print?

>>> def cake(batter):

... return batter

>>> def pan(x, y):

... y = y + 20

... return x(y)

>>> pan(print, 10)

1. What can you find after running?

from operator import sub, mul

def print\_sub(x, y):

print('sub')

return sub(x, y)

def print\_mul(x, y):

print('mul')

return mul(x, y)

print\_sub(print\_mul(4, 504), 2)

>>>a = print\_sub(print\_mul(4, 504), 2)

>>> ?

1. What would Python print?

x = 10

def foo():

return x

def bar(x):

return x

def foobar(new\_value):

x = new\_value

y = x + 1

return x

>>> foo()

>>> bar(5)

>>> foobar(20)

>>> x

>>> y

1. Look at the following program, what are results?

a = 1

def b(b):

return a + b

a = b(a)

a = b(a)

1. Evaluate the following Python code.

from operator import add

def sub(a, b):

sub = add

return a – b

>>> add = sub

>>> sub = min

>>> print(add(2, sub(2, 3)))

1. Write a function with two arguments "a" & "b" and return a+|b|

*Note: one of the online python compilers is at the following link*

*https://pythontutor.com/visualize.html#mode=edit*