Computing for Engineers – ENGG 233

Lab 6

Efran Aghaeekiasarae

Jaxon Braun

L01

Orange

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Exercise 1: Memory Diagram

	Point 1	Point 2
f2	k 17	main a 18
	у 15	
f1	x 13	
main	a 12	

Exercise 2: Output Trace

Expected Program Output:

ABCDEFGHI

ABCDEFGH

ABCDEFG

ABCDEF

ABCDE

ABCD

A B C

A_B

Α

Exercise 3: Function Implementation

```
def is_leap_year(year_in):
if ((year_in % 4 == 0) and not(year_in % 100 == 0)) or (year_in % 400 == 0):
    return True
else:
    return False
```

2)

```
def not_vowel(letter_in):
x = ord(letter_in)
if (x == 65) or (x == 97) or (x == 69) or (x == 101) or (x == 73) or (x == 105) or (x == 79) or (x == 111) or (x == 85) or (x == 117):
    return False
else:
    return True
```

3)

```
def printPrice((float(price_in), str(name_in):
print(name_in, end = ": ")
print("$", end = "")
print(price_in)
```

4)

```
def sizeOf(string_in):
return len(string_in)
```

Exercise 4: All Uppercase String

```
Please enter a string: I am Happy to See You. I AM HAPPY TO SEE YOU.
```

Exercise 6: Variable Scope

	a	b	С	d
Point 1	10	18	2	n/a
Point 2	31	3	n/a	n/a
Point 3	10	n/a	13	3
Point 4	10	18	2	34