# **CS 160 Lab 8**

# Chapter 9 – High-Level Language Programming

1. Assume that import math has been included at the top of your program:
   1. Write a Python statement to print the value of the mathematical constant ***e*** supplied by the math module.

-print (math.e)

* 1. What will be the result of executing the following two Python statements?

math.e = 10

print(math.e)

// It will print the value of math.e which is 10.

1. You want to write a Python program to compute the average of three integer quiz grades for a single student. Decide what variables your program needs, and create them with appropriate initial values.

print(“Please enter 3 grades:”)

result = 0

for x in range(3):

result += eval(input())

print(“The average of those numbers is: %.1f”%(result/3))

1. Given the statement

myList = [“eeny”, “meeny”, “miny”, “moe”]

What Python statement would output “miny”?

-myList[2]

1. Write a Python program that gets a single character from the user and writes out a congratulatory message if the character is a vowel (a, e, i, o, or u), but otherwise writes out a “You lose, better luck next time” message.

-python code

s = input(“Enter a character:”)

if s in “aeiouAEIOU”:

print(“Congratulations”)

else:

print(“You lose, better luck next time”)

1. Insert the missing line of code so that the following adds the integers from 1 to 10, inclusive.

value = 0

top = 10

score = 1

while score <= top:

{

value = value + score

#the missing line // score = score + 1;

}

1. What is the output after the following code is executed?

low = 1

high = 20

while low < high:

print(low, “ ”, high)

low = low + 1

high = high – 1

OUTPUT

1 20  
2 19  
3 18  
4 17  
5 16  
6 15  
7 14  
8 13  
9 20  
10 11

1. Write a python program that prints all of the multiples of 3 from 1 to 100. It should start with “3 6 9” then end with “93 96 99”.

Code:

multiples\_3 = [n for n in range(1, 101) if n % 3 == 0]

print(multiples\_3)

1. Write a python program that inputs people’s first names. The program should keep inputting names until the user inputs the word “done”. Then, the program should print how many names were input and a list of all the names. Here is a sample of how the program would work:

Please enter a name: Ann

Please enter a name: Bob

Please enter a name: Carol

Please enter a name: done

The 3 names you entered were Ann Bob Carol.