Name: Kevin Andor, Cole Keffel, Cole Stewart CSC 308 Assignment 5

# points each (all code to be written in Python, due by end of class today)

1. What is the difference between an interpreter and a compiler?

An interpreter reads each line of code separately (one at a time), while a compiler reads the entirety of the program and translates it into machine language all at once.

1. Write two statements: Get a whole number from the keyboard, and then add 10 to it.

number = int(input(“Enter a whole number:”))

number += 10

1. Display a floating point number, **num**, formatted to show 2 decimal places.

print(“{:.2f}”.format(num))

1. Write a statement to check the value of **age**, and display “Over 21” if at least 21.

if age >=21:

print(“Over 21”)

1. Write a statement to check the value of **grade**, and display “A” if at least 90, “B” if at least 80 but under 90, and “C” otherwise.

if grade >= 90:

print(“A”)

elif grade >= 80 && grade <= 89:

print(“B”)

else:

print(“C”)

1. Write a loop that accepts whole numbers from the keyboard and adds them together until -1 is entered. Do not add the -1 to the total.

total = 0

while True:

answer = int(input(“Enter a number to sum or -1 to quit:\n”))

total += answer

if input == -1:

break

print(total)

1. Write a loop that adds together the numbers 1 through 10.

numArr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

total = 0

for num in numArr:

total += num

print(total)

1. Write a function that is passed 3 numbers as parameters, and returns the sum.

def Add(num1, num2, num3):

sum = num1 + num2 + num3

return sum

1. Write a function call to your function in question 8, storing the return value in **sum**.

sum = Add(num1, num2, num3)

1. Generate a random whole number in the range 10 through 20.

import random

value = random.randrange(10, 20)