**While Loops & Iteration**

1) Fill in the missing information so the while loop prints out the numbers 1 - 10

count = 1

while(count <= 10):

print(count)

count = count + 1

2) Fill in the missing information so the while loop prints out each letter of the string

index = 0

word = "Sydney"

while(index <= len(word)-1):

print(word[index])

index = index + 1

3) Fill the missing code for this program, which asks the user for the password over and over again until it matches the predetermined password.

password = pass # define your password here

user\_pass = ""

while(user\_pass != password):

user\_pass = input(“please input your password”)

print("Access granted!")

Should the code print("Access granted!") go inside the while loop (so that it executes every time), or after the while loop (so that it exits after the while loop is done)?

It should be after the while loop so that it doesn’t print after every failed test; only once the correct password is entered

4) Write a function called odds\_until that takes one integer as a parameter and prints out all odd numbers until and including that number, if it is odd. Example: odds\_until(7) should print 1 3 5 7 (each on a separate line).

def odds\_until(n):

i = 1

while i <= n:

print(i)

i = i + 2

5) Write a function called star\_box that takes two integers as arguments, width and height and prints out a box of stars that is width stars wide and that has height rows.

Example: star\_box(10, 3) should print

\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*  
\*\*\*\*\*\*\*\*\*\*

def star\_box(width, height):

stars\_height = 0

while stars\_height < height:

print(width \* ‘\*’)

stars\_height = stars\_height + 1