# Question 01

If x = 2.781828987, what does the following statement print?

Print (’The value of x is {:.3f}’. format(x))

# Answer

The value of x is 2.782

# Question 02

What does the following code print when it is complete?

p = 1

for i in range (5):

p = p\*(i+1)

print(p)

print (’The value of x is \{:.3f\}’)

# Answer

120

The value of x is \{:.3f\}

# Question 03

What is s after this code has run?

mylist = [1,2,3,4,5,6,7]

s = 0

for k in mylist:

if k%2 == 1:

s = s+k

print(s)

# Answer

16

# Question 04

What is 5 // 2?

# Answer

2

# Question 05

What does this code print to the screen?

def f(x,y):

fval = x\*\*2+3\*y

return fval

g = f(3,2)

print(g)

# Answer

15

# Question 06

Suppose the following is all the code that is written a program. What does it print to screen when it is run?

def hello():

print(’hello’)

# Answer

Nothing because we just define the function. For the print we must call at least one times.

# Question 07

Write a function that takes two arguments and returns 1 if the ﬁrst argument is greater than the second,-1 if the ﬁrst is less than the second, and 0 if they are equal.

# Answer

def Q07(a,b):

if(a>b):

return 1

elif(a<b):

return -1

else:

return 0

print(Q07(6,5))

print(Q07(4,6))

print(Q07(4,4))

## Output

1

-1

0

# Question 08

What is the ﬁnal value of x after this code ﬁnishes?

x = 0

for i in range(3):

for j in range(3):

if i\*j > 2:

x = x+3

elif i\*j == 2:

x = x+2

else:

x = x-1

x = x-1

print(x)

# Answer

-2