Writing exercise:

1. X=3, y=5, z =2

S.makeempty() 🡪 create an empty stack

s.push(x) 🡪 stack[3]

s.push(4)🡪 stack[3,4]

s.pop() 🡪 stack[3]

s.push(y) 🡪 stack[3,5]

s.push(3) 🡪 stack[3,5,,3]

s.push(z) 🡪 stack[3,5,3,2]

s.pop() 🡪 stack[3,5,3]

s.push(2) 🡪 stack[3,5,3,2,2]

s.push(x) 🡪 stack[3,5,3,2,2,3]

while not s.isEmpty( ) : print(‘s.pop() “ “’) 🡪 3 2 2 3 5 3

1. X= 3, y =1

s.makeEmpty()🡪 create an empty stack

s.push(5) 🡪 stack[5]

s.push(7) 🡪stack[5,7]

s.pop() 🡪 stack[5]

x+=y 🡪 x = 4

s.pop() 🡪 stack[]

s.push(x) 🡪 stack[4]

s.push(y) 🡪 stack[4,1]

s.push(2) 🡪 stack[4,1,2]

s.pop() 🡪 stack4,1]

s.pop() 🡪 stack[4]

while not s.isEmpty( ) :

   y = s.pop()

   print(y) 🡪 y = 4, stack[]

print(‘x =’,x) 🡪 x = 4

print(‘y=’,y) 🡪 y = 4

1. E A S \* Y \* Q U E \* \* \* S T \* \* \* I O \* N \* \* \*

🡪S Y E U Q T S A O N I E

1. L A \* S T I \* N \* F I R \* S T \* \* O U \* T \* \* \* \* \* \*

S[0],…,S[4] 🡪L, S, T, F, I

1. E A S \* Y \* Q U E \* \* \* S T \* \* \* I O \* N \* \* \*

* E A SY Q U E S T I O N