# Udemy section 4 LinkedList

## **append()** – add to the back end of LL.

A diagram of a diagram

AI-generated content may be incorrect.

def append(self, value)

new\_node = Node(value)

A black background with blue and pink arrows and a black rectangle with a black background

AI-generated content may be incorrect.A diagram of a head and tail

AI-generated content may be incorrect.

(When self.length is zero, or there is no any node in linked list)

A black background with white text

AI-generated content may be incorrect. or A black background with white text

AI-generated content may be incorrect.

(when there is already existing items in the linked list) append code

A diagram of a number

AI-generated content may be incorrect.A screenshot of a computer

AI-generated content may be incorrect.

self.length +=1

## print\_list() – print each item of LL.

def print\_list(self):

temp = self.head

while temp is not None:

print(temp.value)

temp = temp.next

when temp node is not null or None, print that node value, and set next node to that variable.

## pop() – remove last node from end of the LL.

def pop(self):

A screen shot of a computer

AI-generated content may be incorrect.

If self.length == 0:

return None

A diagram of a number

AI-generated content may be incorrect.A diagram of a diagram

AI-generated content may be incorrect.

temp = self.head

pre = self.head

A diagram of a number

AI-generated content may be incorrect.A diagram of a diagram

AI-generated content may be incorrect.

while (temp.next)

pre = temp

temp = temp.next

A diagram of a diagram

AI-generated content may be incorrect.

self.tail = pre

self.tail.next = None

self.length -= 1

if self.length == 0:

self.head = None

self.tail = None

return temp.value

## prepend() – add a node to beginning of the LL.

def prepend(self, value):

new\_node = Node(value)

A screen shot of a computer

AI-generated content may be incorrect. when there is no node in linked list.

If self.length == 0:

self.head == new\_node

self.tail == new\_node

A computer screen shot of a diagram

AI-generated content may be incorrect.

When there is a multiple nodes inside linked list. Else case of prepend.

self.length += 1

return True # optional

## pop\_first() – remove first item off of the linked list

def pop\_first(self):

A black background with text and arrows

AI-generated content may be incorrect.

If self.length == 0:

retuin None

A diagram of a diagram

AI-generated content may be incorrect.

temp = self.head

self.head = self.head.next

temp.next = None

self.length -= 1

A screen shot of a computer

AI-generated content may be incorrect.

If self.length == 0:

self.tail = None

get() –