**DSA Mock test 3 python**

Implement a stack using a list in Python. Include the necessary methods such as push, pop, and is Empty.

**Sol.**

class Stack:

def \_\_init\_\_(self):

self.stack = []

def push(self, item):

self.stack.append(item)

def pop(self):

if self.is\_empty():

raise IndexError("Stack is empty. Cannot pop from an empty stack.")

return self.stack.pop()

def is\_empty(self):

return len(self.stack) == 0

stack = Stack()

stack.push(1)

stack.push(2)

stack.push(3)

print(stack.pop()) # Output: 3

print(stack.pop()) # Output: 2

print(stack.is\_empty()) # Output: False