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o_bata Structure in Python > 05_Stack > 🖤 creating stack.py > 😭 Stack > 😭 print_stack
  1
       class Node:
           def __init__(self,data):
  2
               self.data = data
  4
               self.next = None
  5
       class Stack:
  6
  7
           def __init__(self):
  8
                self.top = None
  9
 10
 11
           def push(self,data):
 12
                new_node = Node(data)
 13
  14
                new_node.next = self.top
  15
                self.top = new_node
  16
  17
  18
            def print_stack(self):
  19
                current_node = self.top
  20
  21
                while current node:
                    print(current_node.data, end = " -> ")
  22
                     current_node = current_node.next
  23
  24
                print("Node")
  25
```

```
class Stack:
 33
          def pop(self) -> int:
 47
              # Case 1: Stack is empty
48
              if (self.top == None):
49
                  print("Stack is empty! can't perform pop operation")
50
51
                  return -100
52
53
              data = self.top.data
              self.top = self.top.next
54
              self.count = self.count - 1
55
              print(f"Popped the item from stack {data}")
56
57
              return data
58
59
          def peek(self) -> int:
60
              # Case 1: Stack is empty
61
              if (self.top == None):
62
                  print("Stack is empty! can't perform pop operation")
63
                  return -100
64
65
              return self.top.data
66
67
         def get count(self) -> int:
             print(f"There are {self.count} items in the stack")
68
             return self.count
69
70
71
         def print all values(self):
             if (self.top == None):
72
                 print("Stack is empty")
73
74
                 return
```

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C: > Users > Raju > Downloads > 🐨 Stack_lyst 1748463554555.py > 😝 Stack > 🗘 pop
       class Stack:
 33
           def print all values(self):
 71
               if (self.top == None):
 72
                   print("Stack is empty")
 73
                   return
 74
 75
               current_node = self.top
 76
 77
               print("Elements in the stack are as below")
               while( current node is not None):
78
                   print(f" {current node.data} ")
 79
                   current node = current node.next
80
81
      if name == " main ":
82
83
84
          stack = Stack()
85
          stack.pop()
86
          count items = stack.get count()
87
          stack.print all values()
88
89
90
          stack.push(1)
          stack.get count()
91
          stack.print all_values()
92
          stack.pop()
93
94
          stack.push(1)
95
          stack.push(2)
96
          stack.push(3)
97
          stack.push(4)
98
          stack nush(5)
99
```