Stack_python

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```python
[22]: class stack(object):
          def __init__(self):
              self.container = list()
              self.count = 0

          def push(self,data):
              self.container.append(data)
              self.count +=1
          def pop(self):
              self.container.pop()
              self.count -=1
          def pop_index(self, index):

              if(index > self.count):
                  print('index is bigger than the lenght of stack.')

              else:
                  temp = list()

                  for i in range(self.count -(index)):
                      temp.append(self.container.pop())
                  self.container.pop()
                  for i in range(len(temp)):
                      self.container.append(temp.pop())

              self.count -= 1

          def print_stack(self):
              print(self.container)

          def getdata(self, index):
              print(self.container[index-1])
          def clear(self):
              self.container.clear()

      if(__name__ == "__main__"):
          stack = stack()
```

```
stack.push(1)
stack.push(2)
stack.push(3)
stack.push(4)
stack.push(5)
stack.push(6)
stack.push(7)
stack.pop_index(2)
stack.pop()
stack.print_stack()
stack.getdata(2)
stack.clear()
stack.print_stack()
```

```
[1, 3, 4, 5, 6]
3
[]
```

[ ]: