

Python Programming

Len special method

Mostafa S. Ibrahim

Teaching, Training and Coaching since more than a decade!

Artificial Intelligence & Computer Vision Researcher

PhD from Simon Fraser University - Canada

Bachelor / Msc from Cairo University - Egypt

Ex-(Software Engineer / ICPC World Finalist)



Iterating using len and getitem

```
2 class EmployeesManager:
3     def __init__(self):
4         self.employees_names = []
5
6     def add_employee(self, name):
7         self.employees_names.append(name)
8
9     def __len__(self):
10        return len(self.employees_names)
11
12    def __getitem__(self, idx):
13        return self.employees_names[idx]
14
15 if __name__ == '__main__':
16     mgr = EmployeesManager()
17     mgr.add_employee('Mostafa')
18     mgr.add_employee('Belal')
19     mgr.add_employee('Ziad')
20
21
22     for name in mgr: # recall our get next / has next?
23         print(name, end=' ') # Mostafa Belal Ziad |
24
```

“Acquire knowledge and impart it to the people.”

“Seek knowledge from the Cradle to the Grave.”