

# lambda assignment

October 22, 2024

## 0.0.1 Lambda Function

lambda function actually are anonymous function which we use for one time but with lambda keyword not with def

```
[6]: add_lambda=lambda x,y:(x+y)
      add_lambda(6,4)
```

```
[6]: 10
```

```
[7]: min_lambda= lambda x,y:(x-y)
      min_lambda(6,8)
```

```
[7]: -2
```

```
[10]: ex_lambda=lambda x,y:(x**2,y**2)
       ex_lambda(2,3)
```

```
[10]: (4, 9)
```

```
[11]: x=[100,200,300,400,500]
       max_lambda=lambda x:[x]
       max(x)
```

```
[11]: 500
```

```
[22]: min_lambda=lambda y:min[y]
       y=[1,0,0.5,-1,2,3,4]
       min(y)
```

```
[22]: -1
```

```
[13]: find_lambda= lambda x,y,z:(x<y,y>z)

       x=10
       y=20
       z=30

       find_lambda(x,y,z)
```

```
[13]: (True, False)
```

```
[25]: sort_lambda= lambda y:[y]
      y=[1,0,0.5,-1,2,3,4]
      sorted(y)
```

```
[25]: [-1, 0, 0.5, 1, 2, 3, 4]
```

```
[37]: y={1,0,0.5,-1,2,3,4}
      sorted_numbers_desc = sorted(y,key=lambda x: x, reverse=True)
      print(sorted_numbers_desc)
```

```
[4, 3, 2, 1, 0.5, 0, -1]
```

```
[38]: dishes = [
      {"name": "Biryani", "spice_level": 9},
      {"name": "Korma", "spice_level": 4},
      {"name": "Pulao", "spice_level": 3},
      {"name": "Nihari", "spice_level": 7},
      {"name": "Aloo Paratha", "spice_level": 5}
      ]

      sorted_dishes = sorted(dishes, key=lambda dish: dish["spice_level"],
      ↪reverse=True)
      for dish in sorted_dishes:
          print(f"{dish['name']} (Spice Level: {dish['spice_level']})")
```

```
Biryani (Spice Level: 9)
Nihari (Spice Level: 7)
Aloo Paratha (Spice Level: 5)
Korma (Spice Level: 4)
Pulao (Spice Level: 3)
```

```
[39]: dish_menu={"Biryani","Korma","Pulao","Aloo Paratha"}
      sorted_numbers_desc = sorted(dish_menu,key=lambda x: x, reverse=True)
      sorted(dish_menu)
```

```
[39]: ['Aloo Paratha', 'Biryani', 'Korma', 'Pulao']
```