

Practical8

April 2, 2025

1 Practical No. 8

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[ ]: #map() function
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[1]: #map() function
names = ["Pankaj", "Raj", "Saurav", "Krishna"]
upper_list = list(map(str.upper, names))
print(upper_list)
```

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['PANKAJ', 'RAJ', 'SAURAV', 'KRISHNA']
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[2]: def square(x):
      return x**2

numbers = [2,3,4,5,6]
square_list = list(map(square, numbers))
print(square_list)
```

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[4, 9, 16, 25, 36]
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```
[5]: numbers = [2.347974 ,3.8736 ,4.98748 ]
square_list = list(map(round, numbers,range(2,4)))
print(square_list)
```

```
[2.35, 3.874]
```

```
[8]: # filter function
def check_even(x):
    if x%2==0:
        return True
    else:
        return False

numbers = [2,3,4,5,6]
even_list = list(filter(check_even, numbers))
print(even_list)
odd_list = list(filter(lambda x : x%2==1, numbers))
```

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print(odd_list)
```

[2, 4, 6]

[3, 5]

```
[10]: #all()
x = [True, True, True, False]
print(all(x))
```

False

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[12]: numbers = [2,4,6,7]
print(all(x%2==0 for x in numbers))
```

False

```
[14]: #any()
x = [False, False, True]
print(any(x))
```

True

```
[15]: numbers = [1,5,7,6]
print(any(x%2==0 for x in numbers))
```

True