 # Assignment 1

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# 1. Clean Product Names
products = ["  LAPTOP ", "phone  ", "  Tablet", "CAMERA  "]
cleaned_products = list(map(lambda p: p.strip().title(), products))
print("Cleaned Products:", cleaned_products)

# 2. Celsius → Fahrenheit
celsius = [0, 10, 20, 30, 40]
fahrenheit = list(map(lambda c: (9/5)*c + 32, celsius))
print("Fahrenheit:", fahrenheit)

# 3. Square then Add 10
nums = [1, 2, 3, 4, 5]
transformed_nums = list(map(lambda n: n*n + 10, nums))
print("Transformed Numbers:", transformed_nums)

# 4. First and Last Characters
words = ["python", "lambda", "programming", "map", "function"]
first_last = list(map(lambda w: (w[0], w[-1]), words))
print("First & Last Characters:", first_last)

# 5. Increase marks by 5% + round
marks = [[45, 80, 70], [90, 60, 100], [88, 76, 92]]
updated_marks = list(map(lambda row: list(map(lambda x: round(x * 1.05), row)), marks))
print("Updated Marks:", updated_marks)
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# 6. Normalize list between 0 and 1
numbers = [10, 25, 40, 55, 70]
mn, mx = min(numbers), max(numbers)
normalized = list(map(lambda x: (x - mn) / (mx - mn), numbers))
print("Normalized:", normalized)

# 7. Length of each word in each sentence
sentences = [
  "hello world",
  "python is fun",
  "map and lambda"
]
lengths = list(map(lambda s: list(map(lambda w: len(w), s.split())), sentences))
print("Word Lengths:", lengths)
```