

Day18: Assignment for Lambda Functions & List Comprehensions

📌 Daily Assignment Questions (2 Questions)

1. Create a Lambda Function for Temperature Conversion

Write a **lambda function** to convert a temperature from **Celsius to Fahrenheit**.

📌 Formula:

$$F = (C \times 9/5) + 32$$

✅ Example Usage:

```
celsius_to_fahrenheit = lambda c: (c * 9/5) + 32
```

```
print(celsius_to_fahrenheit(0)) # Output: 32.0
```

```
print(celsius_to_fahrenheit(100)) # Output: 212.0
```

2. Implement a List Comprehension for Filtering Words

Given a list of words, use **list comprehension** to filter out words that are longer than 5 characters.

✅ Example Input:

```
words = ["apple", "banana", "grape", "kiwi", "mango", "orange"]
```

✅ Expected Output:

```
['apple', 'grape', 'kiwi', 'mango']
```

✅ Hint: Use if len(word) <= 5 inside the list comprehension.
