# LAB ASSIGNMENT\_13.4

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BATCH:15

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# SCREENSHOTS:

**PROMPT:** **Refactor repeated loops into a cleaner, to approach with the python**

**Code:**

**numbers = [1, 2, 3, 4, 5]**

**squares = []**

**for n in numbers:**

**square. append(n \*\* 2)**

**print(squares)**

**modify the codeA screenshot of a computer

AI-generated content may be incorrect.**

**task2:**

**prompt: Refactor the code using join() to improve efficiency and readability**

**CODE:**

**words = ["AI", "helps", "in", "refactoring", "code"]**

**sentence = ""**

**for word in words:**

**sentence += word + " "**

**print(sentence.strip())**

**refactoring code using get():**

**refactoring", "code"]**

**sentence = " ".join(words)**

**print(sentence)**

**modify the code using get():**

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AI-generated content may be incorrect.**

**Task3:**

**Prompt:** **Replace manual dictionary lookup with a safer method using the get() or another Pythonic approach to handle missing keys gracefully.**

**Code:**

**A close-up of a computer screen

AI-generated content may be incorrect.**

**modify the code use the get()A screenshot of a computer code

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**task4:**

**prompt:** **Refactor repetitive if-else blocks using the dictionary mapping to make the code scalable and clean.**

**Code:A screenshot of a computer program

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**A screenshot of a computer code

AI-generated content may be incorrect.  
  
explanation:A screenshot of a computer

AI-generated content may be incorrect.**

**task5:**

**prompt:** **Optimize nested loops for searching using python in keyword or other efficient search techniques.  
code:**

**A screenshot of a computer code

AI-generated content may be incorrect.**

**Modify the code:**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**Explanation:A screenshot of a computer

AI-generated content may be incorrect.**