# Assignment 1: Zero-shot vs Few-shot Prompting

## Objective

To understand the difference between zero-shot and few-shot prompting using sentiment analysis.

## Zero-shot Prompting

Prompt:  
Determine if the following sentence is positive or negative:  
"I love my new phone."

Model Output:  
[{'label': 'POSITIVE', 'score': 0.999670147895813}]

Observation:  
The model was able to classify the sentence as Positive without any examples.

## Few-shot Prompting

Examples given:  
"I am happy today." → Positive  
"I am sad today." → Negative

Prompt:  
Now classify: "The movie was amazing."

Model Output:  
[{'label': 'POSITIVE', 'score': 0.9998829364776611}]

Observation:  
With examples, the model also classified correctly as Positive. The score is slightly higher, showing more confidence.

## Comparison

• Zero-shot → Works without examples, but the model only relies on its own knowledge.  
• Few-shot → Gives the model guidance using examples, improves confidence and consistency.

## Conclusion

Zero-shot is faster and requires no examples, while few-shot makes the model perform better when the task is ambiguous. For simple tasks like sentiment analysis, both give correct results, but few-shot is more reliable.