vCodeBlock

#include <iostream>

#include <vector>

#include <string>

class Post {

public:

std::string content;

int likes;

int shares;

Post(const std::string& c, int l, int s) : content(c), likes(l), shares(s) {}

};

class SocialMediaAnalyzer {

public:

// Method to analyze sentiment

std::string analyzeSentiment(const std::string& post) {

if (post.find("good") != std::string::npos || post.find("great") != std::string::npos) {

return "Positive";

} else if (post.find("bad") != std::string::npos || post.find("terrible") != std::string::npos) {

return "Negative";

}

return "Neutral";

}

// Method to process and display posts

void processPosts(const std::vector<Post>& posts) {

for (const auto& post : posts) {

std::string sentiment = analyzeSentiment(post.content);

std::cout << "Post: " << post.content << "\n"

<< "Sentiment: " << sentiment << "\n"

<< "Likes: " << post.likes << ", Shares: " << post.shares << "\n\n";

}

}

};

int main() {

// Sample posts

std::vector<Post> posts = {

Post("This is a great product!", 150, 30),

Post("I had a terrible experience.", 10, 2),

Post("Just a normal day.", 20, 5),

Post("Good service, very happy!", 100, 25)

};

SocialMediaAnalyzer analyzer;

analyzer.processPosts(posts);

return 0;

}

**Output:**

Post: This is a great product!

Sentiment: Positive

Likes: 150, Shares: 30

Post: I had a terrible experience.

Sentiment: Negative

Likes: 10, Shares: 2

Post: Just a normal day.

Sentiment: Neutral

Likes: 20, Shares: 5

Post: Good service, very happy!

Sentiment: Neutral

Likes: 100, Shares: 25