TASK- 2

**Stock Trading Platform**

import java.util.\*;

class Stock {

String symbol;

double price;

public Stock(String symbol, double price) {

this.symbol = symbol;

this.price = price;

}

}

class Portfolio {

Map<String, Integer> holdings = new HashMap<>();

double balance = 10000; // Initial balance in dollars

public void buyStock(String symbol, int quantity, double price) {

double cost = quantity \* price;

if (cost <= balance) {

holdings.put(symbol, holdings.getOrDefault(symbol, 0) + quantity);

balance -= cost;

System.out.println("✅ Bought " + quantity + " shares of " + symbol);

} else {

System.out.println("❌ Insufficient balance to buy " + quantity + " shares of " + symbol);

}

}

public void sellStock(String symbol, int quantity, double price) {

if (holdings.containsKey(symbol) && holdings.get(symbol) >= quantity) {

holdings.put(symbol, holdings.get(symbol) - quantity);

balance += quantity \* price;

System.out.println("✅ Sold " + quantity + " shares of " + symbol);

if (holdings.get(symbol) == 0) {

holdings.remove(symbol);

}

} else {

System.out.println("❌ You don't have enough shares to sell.");

}

}

public void displayPortfolio(Map<String, Stock> market) {

System.out.println("\n📊 Portfolio:");

double totalValue = balance;

for (Map.Entry<String, Integer> entry : holdings.entrySet()) {

String symbol = entry.getKey();

int quantity =