

oop assignment

```
import java.util.Scanner;

public class BankingSystem {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        double balance = 0.0; // initial balance
        boolean running = true; // flag to control the loop

        while (running) {
            System.out.println("Welcome to the Banking System");
            System.out.println("1. Check Balance");
            System.out.println("2. Deposit");
            System.out.println("3. Withdraw");
            System.out.println("4. Exit");
            System.out.print("Choose an option: ");
            int choice = scanner.nextInt();

            switch (choice) {
                case 1:
                    System.out.println("Your current balance is: $" + balance);
                    break;

                case 2:
                    System.out.print("Enter the amount to deposit: $");
                    double deposit = scanner.nextDouble();
                    balance += deposit;
                    System.out.println("$" + deposit + " has been deposited. New balance: $" +
```

```
balance);  
break;
```

case 3:

```
System.out.print("Enter the amount to withdraw: $");  
double withdraw = scanner.nextDouble();  
if (withdraw > balance) {  
    System.out.println("Insufficient balance!");  
} else {  
    balance -= withdraw;  
    System.out.println("$" + withdraw + " has been withdrawn. New balance: $"  
+ balance);  
}  
break;
```

case 4:

```
System.out.println("Exiting the system. Goodbye!");  
running = false; // stops the loop  
break;
```

default:

```
System.out.println("Invalid option. Please try again.");  
break;  
}  
System.out.println(); // adds a line break for clarity  
}
```

```
scanner.close(); // close the scanner  
}  
})
```