In [4]:

```
class BankAccount:
    def __init__(self, account_number, account_name, balance=0):
        self.account_number = account_number
        self.account_name = account_name
        self.balance = balance
        self.password = None

    def set_password(self, password):
        self.password = password
        print("Password set successfully.")

    def check_password(self, password):
        return self.password == password

    def login(self, account_number, password):
        if self.password is None:
            print("Password has not been set.")
            return False
        elif self.account_number == account_number and self.check_password(password):
            print("Login successful.")
            return True
        else:
            print("Invalid account number or password.")
            return False

    def deposit(self, amount):
        if amount > 0:
            self.balance += amount
            print(f"Deposited: {amount}. New Balance: {self.balance}")
        else:
            print("Deposit amount must be positive.")

    def withdraw(self, amount):
        if amount > 0:
            if amount <= self.balance:
                self.balance -= amount
                print(f"Withdrew: {amount}. New Balance: {self.balance}")
            else:
                print("Insufficient funds.")
        else:
            print("Withdrawal amount must be positive.")

    def display_details(self):
        print(f"Account Number: {self.account_number}, Account Name: {self.account_name}, Balance: {self.balance}")


# Main function
def main():
    # Create a BankAccount object
    account1 = BankAccount("123456789", "Raju", 1000)

    # Set password
    account1.set_password("password123")
    print("Password set successfully.")

    # Login
    account_number = input("Enter account number: ")
    password = input("Enter password: ")
    if account1.login(account_number, password):
        while True:
            print("\n1. Deposit")
            print("2. Withdraw")
            print("3. Display Account Details")
            print("4. Exit")

            choice = input("Enter your choice: ")

            if choice == "1":
                amount = float(input("Enter amount to deposit: "))
                account1.deposit(amount)
            elif choice == "2":
                amount = float(input("Enter amount to withdraw: "))
                account1.withdraw(amount)
            elif choice == "3":
                account1.display_details()
            elif choice == "4":
                print("Exiting program...")
                break
            else:
                print("Invalid choice. Please try again.")


main()
```

```
Password set successfully.
Password set successfully.
Enter account number: 123456789
Enter password: password123
Login successful.

1. Deposit
2. Withdraw
3. Display Account Details
4. Exit
Enter your choice: 1
Enter amount to deposit: 1000
Deposited: 1000.0. New Balance: 2000.0

1. Deposit
2. Withdraw
3. Display Account Details
4. Exit
Enter your choice: 2
```

```
Enter amount to withdraw: 500
Withdrew: 500.0. New Balance: 1500.0

1. Deposit
2. Withdraw
3. Display Account Details
4. Exit
Enter your choice: 3
Account Number: 123456789, Account Name: Raju, Balance: 1500.0

1. Deposit
2. Withdraw
3. Display Account Details
4. Exit
Enter your choice: 4
Exiting program...
```