**Encapsulation** hides the internal details of an object and provides controlled access through methods.

**Example**-

class BankAccount:

def \_\_init\_\_(self, owner, balance):

self.owner = owner

self.\_\_balance = balance # Private attribute

def deposit(self, amount):

self.\_\_balance += amount

print(f"Deposited {amount}. New balance is {self.\_\_balance}.")

def withdraw(self, amount):

if amount > self.\_\_balance:

print("Insufficient funds!")

else:

self.\_\_balance -= amount

print(f"Withdrawn {amount}. Remaining balance is {self.\_\_balance}.")

# Create a BankAccount object

account = BankAccount("Charlie", 1000)

# Access and manipulate the balance through methods

account.deposit(500)

account.withdraw(200)

A screenshot of a computer program

Description automatically generated