Banking

In [1]:
```python
class BankAccount:
    def __init__(self, account_number, account_holder, balance=0):
        self.account_number = account_number
        self.account_holder = account_holder
        self.balance = balance
        self.is_logged_in = False

    def login(self, account_number):
        if account_number == self.account_number:
            self.is_logged_in = True
            print(f"Login successful for account: {self.account_number}")
        else:
            print("Login failed. Account number not recognized.")

    def deposit(self, amount):
        if self.is_logged_in:
            if amount > 0:
                self.balance += amount
                print(f"Deposited: ${amount}. New balance: ${self.balance}.")
            else:
                print("Deposit amount must be positive.")
        else:
            print("Please login to deposit money.")

    def withdraw(self, amount):
        if self.is_logged_in:
            if 0 < amount <= self.balance:
                self.balance -= amount
                print(f"Withdrew: ${amount}. New balance: ${self.balance}.")
            else:
                print("Insufficient balance or invalid withdrawal amount.")
        else:
            print("Please login to withdraw money.")

    def check_balance(self):
        if self.is_logged_in:
            print(f"Current balance: ${self.balance}.")
        else:
            print("Please login to check balance.")
```

In [29]:
```python
def main():
    account = BankAccount("123456", "Alice")

    account.login("123456")

    account.deposit(1000)
    account.withdraw(500)
    account.check_balance()

if __name__ == "__main__":
    main()
```

```
Login successful for account: 123456
Deposited: $1000. New balance: $1000.
Withdrew: $500. New balance: $500.
Current balance: $500.
```

In [15]:
```python
def main():
    account2 = BankAccount("654321", "Bob")
    account2.withdraw(100)

if __name__ == "__main__":
    main()
```

```
Please login to withdraw money.
```

In [ ]:
```python

```