

**Additional Activities:**

1. Design a pseudocode for computing the area of a rectangle. The formula for computing the area of a rectangle is  $A = \frac{1}{2} (b)(h)$ .

Start

Display "Enter the base of the rectangle (b): "

Accept b

Display "Enter the height of the rectangle (h): "

Accept h

Area =  $(1/2) * b * h$

Display "The area of the rectangle is: ", Area

Stop

2. Design a pseudocode for some common ATM machine transactions such as:

- **Withdrawals**

Start

Display "Enter your PIN:"

Accept PIN

If PIN is correct Then

Display "Enter amount to withdraw:"

Accept amount

If amount  $\leq$  balance Then

balance = balance - amount

Display "Please collect your cash."

Display "Your remaining balance: ", balance

Else

Display "Insufficient funds."

End If

Else

Display "Incorrect PIN. Transaction failed."

End If

Stop

- ***Balance Inquiries***

Start

Display "Enter your PIN: "

Accept PIN

If PIN is correct Then

Display "Your current balance: ", balance

Else

Display "Incorrect PIN. Transaction failed."

End If

Stop

- ***Fund Transfer***

Start

Display "Enter your PIN: "

Accept PIN

If PIN is correct Then

Display "Enter the account number to transfer funds to: "

Accept account\_number

Display "Enter the amount to transfer: "

Accept transfer\_amount

If transfer\_amount <= balance Then

balance = balance - transfer\_amount

Display "Successfully transferred", transfer\_amount, "to account number",  
account\_number

Display "Remaining balance: ", balance

Else

Display "Insufficient funds."

End If

Else

Display "Incorrect PIN. Transaction failed."

End If

Stop

- ***PIN change***

Start

Display "Current PIN: "

Accept current\_PIN

If current\_PIN is correct Then

Display "New PIN:"

Accept new\_PIN

Display "Confirm New PIN:"

Accept confirm\_PIN

If new\_PIN = confirm\_PIN Then

current\_PIN = new\_PIN

Display "PIN changed successfully."

Else

Display "PINs do not match. Try again."

End If

Else

Display "Incorrect PIN. Try again."

End If

Stop