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**Flowchart**

**Generic flowchart**

图示, 漏斗图

AI 生成的内容可能不正确。

**Specific flowchart**

图示

AI 生成的内容可能不正确。

**Pseudocode**

**PROGRAM** <ATMSystem>:

**SET** balance = 1500

**WHILE** True

**DO** Print "===================================="

Print " WELCOME TO ATM "

Print "[1] Check Balance"

Print "[2] Withdraw Cash"

Print "[3] Deposit Cash"

Print "[4] Exit"

Print "Select an option: "

INPUT option

**IF** option == "1"

**THEN** FUNCTION BalanceChecking() CALL

print "Your current balance is $" + balance

END FUNCTIONBalanceChecking()

**ELIF** option == "2"

**THEN** FUNCTION CashWithdrawal() CALL

Print "Withdraw Cash"

Print "Enter the amount to withdraw: "

INPUT amount

**IF** amount > balance

**THEN** Print "Insufficient balance. Transaction failed."

**ELIF** amount <= 0

**THEN** Print "Please enter an amount greater than 0."

**ELSE** balance -= amount

**THEN** Print "Withdrawal successful. New balance: $" + balance

**ENDIF**

END FUNCTION CashWithdrawal()

**ELIF** option == "3"

**THEN** FUNCTION CashDeposit() CALL

Print "Deposit Cash"

Print "Enter the amount to deposit: "

INPUT amount

**IF** amount <= 0

**THEN** Print "Please enter an amount greater than 0."

**ELSE** balance += amount

Print "Deposit successful. New balance: $" + balance

**ENDIF**

END FUNCTION CashDeposit()

**ELIF** option == "4"

**THEN** Print "Session ended. "

Print "Thank you for using our ATM. Have a nice day!"

Print "Press Enter to exit..."

INPUT "Press Enter to exit..."

**BREAK**

**ELSE** Print "Invalid selection. "

**ENDIF**

**ENDWHILE**

**END**

**Coding**

balance = 1500

def BalanceChecking():

global balance

print("\nYour current balance is " +str(balance))

def CashWithdrawal():

global balance

print("\nWithdraw Cash")

amount = float(input("Enter the amount to withdraw: $"))

if amount > balance:

print("Insufficient balance. Transaction failed.")

elif amount <= 0:

print("Invalid amount. Please enter a positive number.")

else:

balance -= amount

print("Please take your $"+str(amount)+" cash. New balance: $"+str(balance)+".")

def CashDeposit():

global balance

print("\nDeposit Cash")

amount = float(input("Enter the amount to deposit: $"))

if amount <= 0:

print("Invalid amount. Please enter a positive number.")

else:

balance += amount

print("Deposit successful. New balance: $"+str(balance)+".")

while True:

print("\n====================================")

print(" WELCOME TO ATM ")

print("====================================")

print("[1] Check Balance")

print("[2] Withdraw Cash")

print("[3] Deposit Cash")

print("[4] Exit")

print("====================================")

option = input("Select an option: ")

if option == "1":

BalanceChecking()

elif option == "2":

CashWithdrawal()

elif option == "3":

CashDeposit()

elif option == "4":

print("\nSession ended. ")

print("Thank you for using our ATM. Have a nice day! ")

input("\nPress Enter to exit...")

break

else:

print("Invalid selection.")

**Test Data**

|  |  |  |
| --- | --- | --- |
| No. | Test Case | Output |
| 1 | Input option from menu  Enter  1 | 文本 |
| 2 | Input option from menu  Enter  2  Input the amount to withdraw  Enter  5000 |  |
| 3 | Input option from menu  Enter  2  Input the amount to withdraw  Enter  123 | 文本  描述已自动生成 |
| 4 | Input option from menu  Enter  2  Input the amount to withdraw  Enter  -120 |  |
| 5 | Input option from menu  Enter  3  Input the amount to deposit  Enter  456 | 文本  描述已自动生成 |
| 6 | Input option from menu  Enter  3  Input the amount to deposit  Enter  -150 |  |
| 7 | Input option from menu  Enter  4 | 文本  描述已自动生成 |
| 8 | Input option from menu  Enter  5pm |  |

**Output**

**Valid Data**

**文本

描述已自动生成**

**Invalid Data**

**文本

描述已自动生成**