

**Withdraw Tests**

- Since daily withdrawal limit at an ATM is \$5000 there will be a dictionary (Python hash table) that contains the amounts withdrawn by each account in the ATM that day so that it can be referenced

Test #	Desc	Purpose	Input	Input Files	Output Files	Terminal Output
T1	ATM/agent case, withdraw command, invalid account number	Reject account numbers not in valid account list	withdraw 1000327 10000	VAF not containing 1000327, withdraw hash table if on ATM	None	Error message telling users that the given account is not on valid account list
T2		Reject account numbers that have non-numeric characters	withdraw 1234bbb 10000	VAF, withdraw hash table if on ATM	None	Error message telling users that the account number must be all numeric digits
T3	ATM case, withdraw command, invalid amount	Reject withdraw amount that exceeds \$1000	withdraw 1000327 1000000	VAF containing 1000327, withdraw hash table	None	Error message telling users there is a limit of \$1000 on an ATM
T4		Reject withdraw amount that is less than \$0	withdraw 1000327 -10000	VAF containing 1000327, withdraw hash table	None	Error message telling users they can not withdraw a negative amount
T5		Reject withdraw amount that contains non-numeric characters	withdraw 1000327 9f4ed-	VAF containing 1000327, withdraw hash table	None	Error message telling users amount must be all numeric digits
T6	ATM case, withdraw amount, exceeding limit	Reject withdraw if you are attempting to withdraw more than \$5000 in an ATM in a single day	withdraw 1000327 100000	VAF containing 1000327, withdraw hash table	None	Error message telling users they have exceeded the daily ATM withdrawal limit
T7	ATM case, withdraw command, valid amount	Accept valid withdraw amount on ATM	withdraw 1000327 100000	VAF containing 1000327, withdraw hash table	Transaction message containing withdraw transaction	Empty, or possibly information messages in response to commands
T8	Agent case, withdraw command, invalid amount	Reject withdraw amount that exceeds \$999,999.99	withdraw 1000327 100000000	VAF containing 1000327	None	Error message telling users there is a limit of \$999,999.99 on an ATM
T9	Agent case, withdraw command,	Reject withdraw amount that is less than \$0	withdraw 1000327 -10000	VAF containing 1000327	None	Error message telling users they can not withdraw a

	invalid amount					negative amount
T10	Agent case, withdraw command, invalid amount	Reject withdraw amount that contains non-numeric characters	withdraw 1000327 9f4ed-	VAF containing 1000327	None	Error message telling users that the account number must be all numeric digits
T11	Agent case, withdraw command, valid amount and number	Accept withdraw amount and create transaction message	withdraw 1000327 100000	VAF containing 1000327	Transaction message containing withdraw transaction	Empty, or possibly information messages in response to commands

#### Withdraw Tests Input/Output Examples

Test #	Input File Content	Output File Content
T1, T2	<u>Valid Accounts File</u> 1324333 0000000  <u>Withdraw Hash Table</u> 1324333: \$0	(empty)
T3-T5	<u>Valid Accounts File</u> 1000327 1324333 0000000  <u>Withdraw Hash Table</u> 1000327: \$0 1324333: \$0	(empty)
T6	<u>Valid Accounts File</u> 1000327 1324333 0000000  <u>Withdraw Hash Table</u> 1000327: \$4500 1324333: \$0	(empty)
T7	<u>Valid Accounts File</u> 1000327 1324333 0000000  <u>Withdraw Hash Table</u> 1000327: \$0 1324333: \$0	<u>Transaction Message</u> WDR 1000327 100000 0000000 ***
T8-10	<u>Valid Accounts File</u> 1000327 1324333 0000000	(empty)
T11	<u>Valid Accounts File</u> 1000327 1324333 0000000	<u>Transaction Message</u> WDR 1000327 100000 0000000 ***

