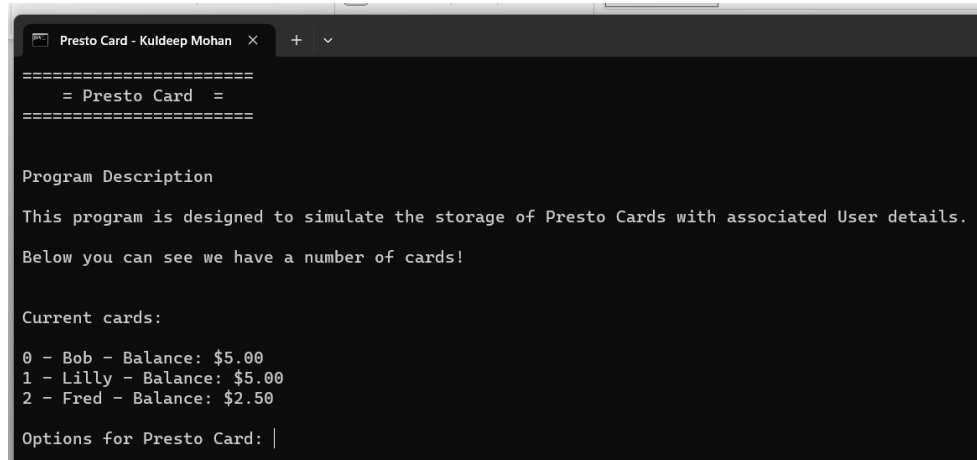


Kuldeep Mohanta
100656950
April 17, 2023

Lab 4 – Presto Card

***Just a notice that I had attempted to do the Bonus 5% opportunity for this lab – Option 1. I had added the ability to 'del, tap, and topup' by typing the card name instead of the index value ***

Part 2 – Initial Screen



```
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

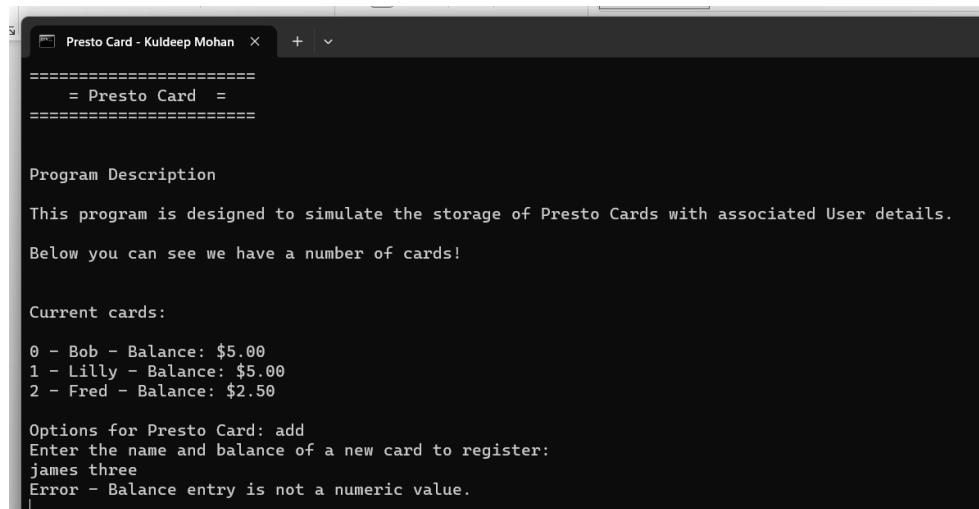
Current cards:

0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50

Options for Presto Card: |
```

Screenshot 1

Context: As the application starts up, the user is presented with a banner and description of what the program is. They are shown the existing cards on record, and they are prompted for what they would like to do next



```
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:

0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50

Options for Presto Card: add
Enter the name and balance of a new card to register:
james three
Error - Balance entry is not a numeric value.
```

Screenshot 2

Context: The user attempted to add a new card with a (non-numeric) balance of “three” so the program did not accept their input, displayed an error message

```
Presto Card - Kuldeep Mohan x + v
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:

0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50

Options for Presto Card: del
Enter the name of the card to delete:
james
james is not currently registered in the system!
```

Screenshot 3

Context: The user attempted to delete a card name that had not previously been registered in the system, the system notified the user of the error

```
Presto Card - Kuldeep Mohan x + v
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:

0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50

Options for Presto Card: tap
Enter the name of the card to tap:
james
Error - A card with that name does not exist in the system, please enter a card name that is registered.
```

Screenshot 4

Context: The user tried to tap a card that is not registered in the system and so the tap function cannot proceed since there is no valid card with a registered balance amount

```
Presto Card - Kuldeep Mohan x + v
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:

0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50

Options for Presto Card: topup
Please enter the name of the card you wish to add funds to and how much money you would like to top up the card for:
james four
Error - Funds entry is not a numeric value.
```

Screenshot 5

Context: The user attempted to “topup” a card with a non-numeric balance and was given an error

Part 4 – Input and Output Screens

```
Presto Card - Kuldeep Mohan x + v
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:

0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50

Options for Presto Card: add
Enter the name and balance of a new card to register:
james 5
James has been added to the machine's record with a balance of $5.00

Presto Card - Kuldeep Mohan x + v
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:

0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50
3 - James - Balance: $5.00

Options for Presto Card: |
```

Screenshot 6

Context: The user attempted to add a card following the appropriate input parameters (name, balance) and was given a confirmation that they were able to add the card to the system, as well as a refreshed menu with the new card details.

```
Presto Card - Kuldeep Mohan x + v
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:
0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50
3 - James - Balance: $5.00

Options for Presto Card: del
Enter the name of the card to delete:
James
Machine has succesfully removed James's card!
```

```
Presto Card - Kuldeep Mohan x + v
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:
0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50

Options for Presto Card: |
```

Screenshot 7

Context: The user inputted a card name that was previously entered into the system and the system was able to match it with an existing card's name. The system refreshed its records with the removal of the previously selected card.

```
Presto Card - Kuldeep Mohan x + v
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:
0 - Bob - Balance: $5.00
1 - Lilly - Balance: $5.00
2 - Fred - Balance: $2.50

Options for Presto Card: tap
Enter the name of the card to tap:
Lilly
Card tapped! ~~ New balance: $2.50
```

```
Presto Card - Kuldeep Mohan x + v
=====
= Presto Card =
=====

Program Description

This program is designed to simulate the storage of Presto Cards with associated User details.

Below you can see we have a number of cards!

Current cards:
0 - Bob - Balance: $5.00
1 - Lilly - Balance: $2.50
2 - Fred - Balance: $2.50

Options for Presto Card: |
```

Screenshot 8

Context: The user attempted to tap a card that had a sufficient balance, the user was given a confirmation message that the card has been tapped and was outputted the new balance of the card. The system then refreshed the menu to reflect the new card balance.

```
Presto Card - Kuldeep Mohan
=====
= Presto Card =
=====

Program Description
This program is designed to simulate the storage of Presto Cards with associated User details.
Below you can see we have a number of cards!

Current cards:
0 - Bob - Balance: $5.00
1 - Lilly - Balance: $2.50
2 - Fred - Balance: $2.50

Options for Presto Card: topup
Please enter the name of the card you wish to add funds to and how much money you would like to top up the card for:
Fred 5
Successfully added funds to Fred's Card!
-- New balance: $7.50
```

```
Presto Card - Kuldeep Mohan
=====
= Presto Card =
=====

Program Description
This program is designed to simulate the storage of Presto Cards with associated User details.
Below you can see we have a number of cards!

Current cards:
0 - Bob - Balance: $5.00
1 - Lilly - Balance: $2.50
2 - Fred - Balance: $7.50

Options for Presto Card: |
```

Screenshot 9

Context: The user selected the “topup” function and successfully entered a card name that was already registered in the system, the system then gave a confirmation message that the new funds have been added to the user’s account. The system refreshed the card details to show the changes.