File Edit View Run Kernel Settings Help

Trusted

Markdown ⌄

JupyterLab ◲   ❈   Python 3 (ipykernel) ◯

(Abhishek Kumar)

PYTHON DEVELOPER INTERNSHIP:-

Task 6 : ATM SIMULATOR

```python
class ATM:

    def __init__(self, balance=0):
        self.balance = balance


    def check_balance(self):
        return f"Your account balance is ${self.balance:.2f}"


    def deposit(self, amount):
        if amount > 0:
            self.balance += amount
            return f"Deposited ${amount:.2f} successfully. Your new balance is ${self.balance:.2f}"

        else:
            return "Invalid deposit amount. Please enter a positive amount."


    def withdraw(self, amount):

        if amount > 0 and amount <= self.balance:
            self.balance -= amount
            return f"Withdrew ${amount:.2f} successfully. Your new balance is ${self.balance:.2f}"

        elif amount <= 0:
            return "Invalid withdrawal amount. Please enter a positive amount."

        else:
            return "Insufficient funds. Your account balance is not enough for this withdrawal."

def main():
```

```python
    atm = ATM()

    while True:
        print("\nATM Simulator Menu:")
        print("1. Check Balance")
        print("2. Deposit Funds")
        print("3. Withdraw Funds")
        print("4. Exit")

        choice = input("Please select an option (1/2/3/4): ")

        if choice == "1":
            print(atm.check_balance())

        elif choice == "2":
            amount = float(input("Enter the deposit amount: "))
            print(atm.deposit(amount))

        elif choice == "3":
            amount = float(input("Enter the withdrawal amount: "))
            print(atm.withdraw(amount))

        elif choice == "4":
            print("Thank you for using the ATM. Goodbye!")
            break

        else:
            print("Invalid choice. Please select a valid option.")


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

```
ATM Simulator Menu:
1. Check Balance
2. Deposit Funds
3. Withdraw Funds
4. Exit
Please select an option (1/2/3/4):  1
Your account balance is $0.00

ATM Simulator Menu:
1. Check Balance
2. Deposit Funds
3. Withdraw Funds
4. Exit
Please select an option (1/2/3/4):  2
Enter the deposit amount:  2
Deposited $2.00 successfully. Your new balance is $2.00

ATM Simulator Menu:
1. Check Balance
2. Deposit Funds
3. Withdraw Funds
4. Exit
Please select an option (1/2/3/4):  3
Enter the withdrawal amount:  3
Insufficient funds. Your account balance is not enough for this withdrawal.

ATM Simulator Menu:
1. Check Balance
2. Deposit Funds
3. Withdraw Funds
4. Exit
Please select an option (1/2/3/4):  4
Thank you for using the ATM. Goodbye!
```

Thank you

[ ]: