BANK ACCOUNT MANAGEMENT SYSTEM
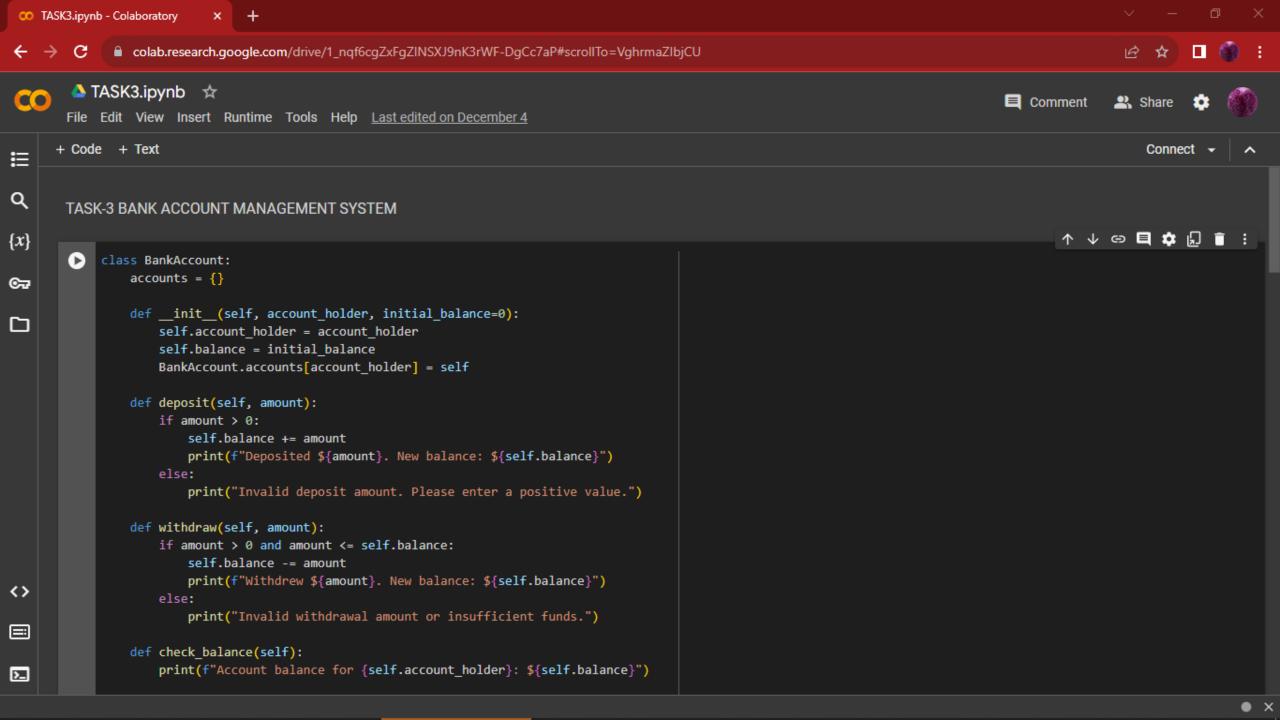
Python Development

colab.research.google.com/drive/1_nqf6cgZxFgZINSXJ9nK3rWF-DgCc7aP#scrollTo=VghrmaZIbjCU

TASK3.ipynb

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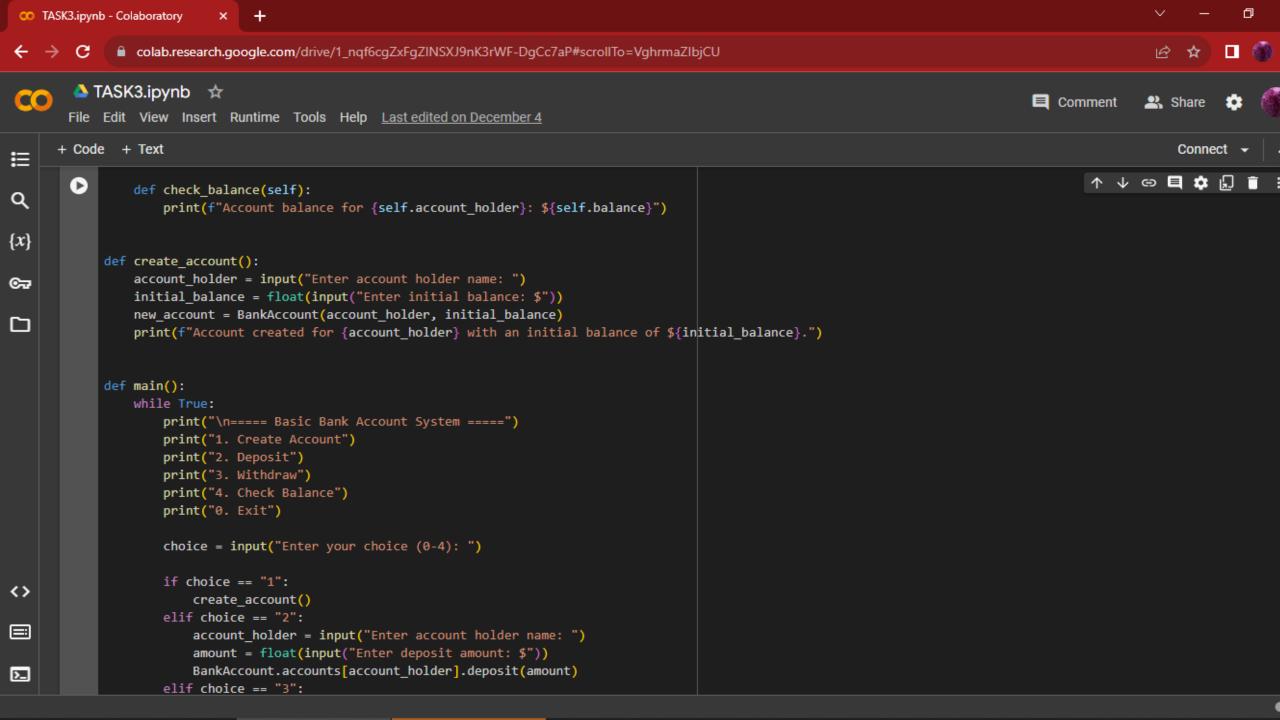+ Code   + Text   Connect ▾

TASK-3 BANK ACCOUNT MANAGEMENT SYSTEM

```python
class BankAccount:
    accounts = {}

    def __init__(self, account_holder, initial_balance=0):
        self.account_holder = account_holder
        self.balance = initial_balance
        BankAccount.accounts[account_holder] = self

    def deposit(self, amount):
        if amount > 0:
            self.balance += amount
            print(f"Deposited ${amount}. New balance: ${self.balance}")
        else:
            print("Invalid deposit amount. Please enter a positive value.")

    def withdraw(self, amount):
        if amount > 0 and amount <= self.balance:
            self.balance -= amount
            print(f"Withdrew ${amount}. New balance: ${self.balance}")
        else:
            print("Invalid withdrawal amount or insufficient funds.")

    def check_balance(self):
        print(f"Account balance for {self.account_holder}: ${self.balance}")
```

TASK3.ipynb

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```python
    def check_balance(self):
        print(f"Account balance for {self.account_holder}: ${self.balance}")


def create_account():
    account_holder = input("Enter account holder name: ")
    initial_balance = float(input("Enter initial balance: $"))
    new_account = BankAccount(account_holder, initial_balance)
    print(f"Account created for {account_holder} with an initial balance of ${initial_balance}.")


def main():
    while True:
        print("\n===== Basic Bank Account System =====")
        print("1. Create Account")
        print("2. Deposit")
        print("3. Withdraw")
        print("4. Check Balance")
        print("0. Exit")

        choice = input("Enter your choice (0-4): ")

        if choice == "1":
            create_account()
        elif choice == "2":
            account_holder = input("Enter account holder name: ")
            amount = float(input("Enter deposit amount: $"))
            BankAccount.accounts[account_holder].deposit(amount)
        elif choice == "3":
```

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```python
            account_holder = input("Enter account holder name: ")
            amount = float(input("Enter deposit amount: $"))
            BankAccount.accounts[account_holder].deposit(amount)
        elif choice == "3":
            account_holder = input("Enter account holder name: ")
            amount = float(input("Enter withdrawal amount: $"))
            BankAccount.accounts[account_holder].withdraw(amount)
        elif choice == "4":
            account_holder = input("Enter account holder name: ")
            BankAccount.accounts[account_holder].check_balance()
        elif choice == "0":
            print("Exiting Bank Account System. Goodbye!")
            break
        else:
            print("Invalid choice. Please enter a number between 0 and 4.")


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

```
===== Basic Bank Account System =====
1. Create Account
2. Deposit
3. Withdraw
4. Check Balance
0. Exit
Enter your choice (0-4): 1
Enter account holder name: MONISHA
Enter initial balance: $3500.50
```

```
===== Basic Bank Account System =====
1. Create Account
2. Deposit
3. Withdraw
4. Check Balance
0. Exit
Enter your choice (0-4): 4
Enter account holder name: MONISHA
Account balance for MONISHA: $4500.5

===== Basic Bank Account System =====
1. Create Account
2. Deposit
3. Withdraw
4. Check Balance
0. Exit
Enter your choice (0-4): 0
Exiting Bank Account System. Goodbye!
```

Double-click (or enter) to edit

THANK YOU