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import random
class BankAccount:
    def __init__(self, name, balance):
        self.account_number = random.randint(10**15, 10**16 - 1)
        self.AccountHolderName = name
        self.balance = balance
    def deposit(self, amount):
        if amount > 0:
            self.balance += amount
            return "Balance has been updated."
        else:
            return "Invalid amount"
    def display_balance(self):
        print(f"Current Balance: Rs{self.balance}")
class SavingAccount(BankAccount):
    interest_rate = 4
    def apply_interest(self):
        interest = self.balance * (self.interest_rate/100)
        self.balance += interest
        print(f"Interest of Rs{interest} added at {self.interest_rate}% rate")
class CurrentAccount(BankAccount):
    overdraft_limit = 50000
    def withdraw(self, amount):
        if self.balance - amount >= self.overdraft_limit:
            self.balance -= amount
            print(f"{amount} withdrawn successfully")
        else:
            print("limit exceeded")

print("Welcome to INDIAN bank ltd")
acc_type = input("Enter account type(Saving/Current):")
name = input("Enter account holder name:")
initial_balance = float(input("Enter Initial balance:"))
if acc_type == "saving":
    account = SavingAccount(name, initial_balance)
    print("Your saving account has been created successfully")
    print(f"Account Number: {account.account_number}")
elif acc_type == "current":
    account = CurrentAccount(name, initial_balance)
    print("Your current account has been created successfully")
    print(f"Account Number: {account.account_number}")
else:
    print("invalid account type")
    exit()
while True:

    print("1. Deposit\n2. Withdraw\n3. Display Balance\n5. Exit")

    choice = input("Enter choice: ")

    if choice == "1":
        amt = float(input("Enter deposit amount: "))
        account.deposit(amt)
        break

    elif choice == "2":
        amt = float(input("Enter withdraw amount: "))
        account.withdraw(amt)
        break

    elif choice == "3":
        account.display_balance()
        break

    elif choice == "4" and acc_type == "saving":
        account.apply_interest()
        break

    elif choice == "5":
        print("Thank you for banking with us!")
        break

    else:
        print("Invalid choice!")

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➦ Welcome to INDIAN bank ltd
Enter account type(Saving/Current):saving
Enter account holder name:Rohan
Enter Initial balance:5000
Your saving account has been created successfully
Account Number: 9239701985653365
1. Deposit
2. Withdraw
3. Display Balance
5. Exit
Enter choice: 1
Enter deposit amount: 2000
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