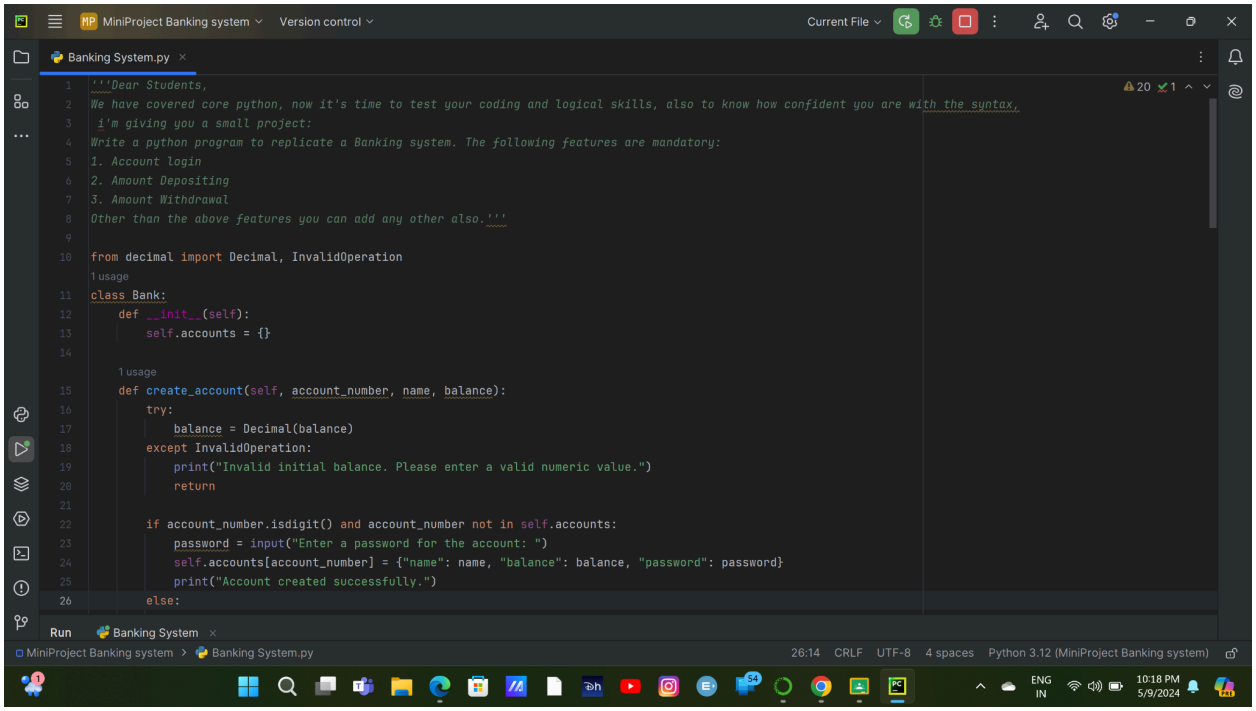
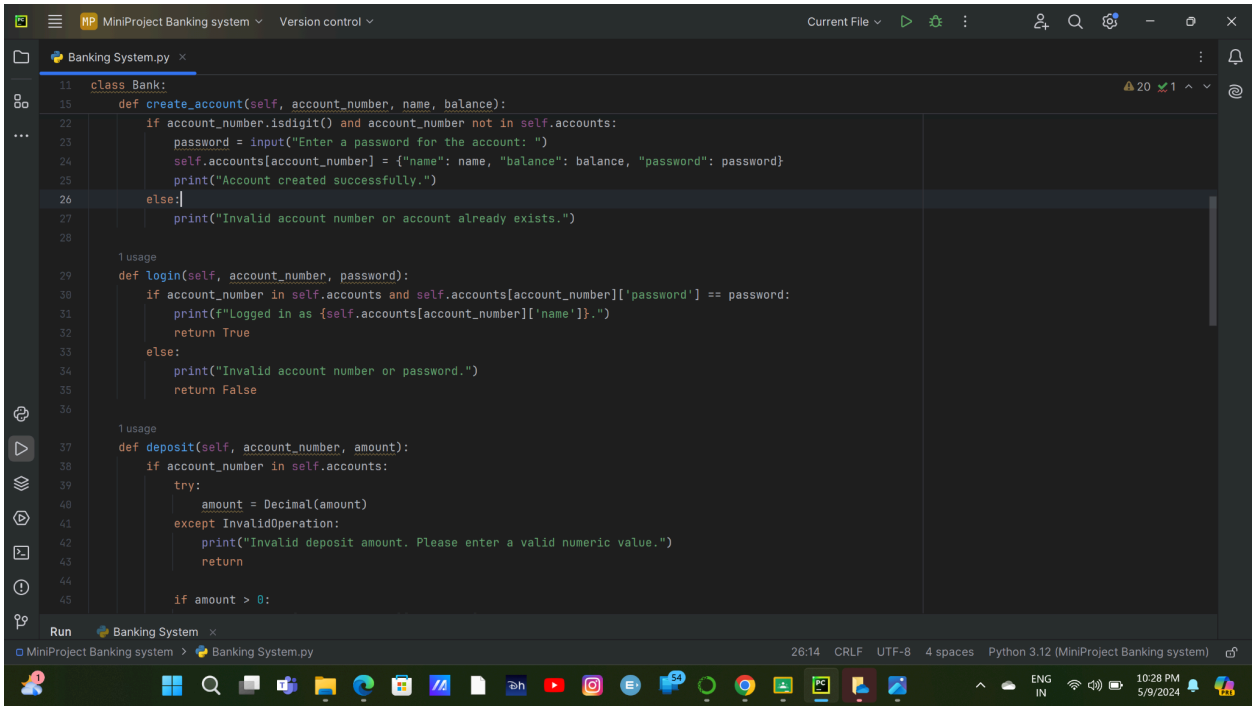
Dear Students,
We have covered core python, now it's time to test your coding and logical skills, also to know how confident you are with the syntax, i'm giving you a small project:
Write a python program to replicate a Banking system. The following features are mandatory:
1. Account login
2. Amount Depositing
3. Amount Withdrawal
Other than the above features you can add any other also.

You should upload the code and output in to your github account. Submit the github link here.

(Score : code (7) + extra features (2) + Timely submission (1))

0MINI PROJECT-BANKING SYSTEM




MiniProject Banking system
Version control
Current File
Banking System.py
class Bank:
def create_account(self, account_number, name, balance):
if account_number.isdigit() and account_number not in self.accounts:
password = input("Enter a password for the account: ")
self.accounts[account_number] = {"name": name, "balance": balance, "password": password}
print("Account created successfully.")
else:
print("Invalid account number or account already exists.")
1 usage
def login(self, account_number, password):
if account_number in self.accounts and self.accounts[account_number]['password'] == password:
print(f"Logged in as {self.accounts[account_number]['name']}.")
return True
else:
print("Invalid account number or password.")
return False
1 usage
def deposit(self, account_number, amount):
if account_number in self.accounts:
try:
amount = Decimal(amount)
except InvalidOperation:
print("Invalid deposit amount. Please enter a valid numeric value.")
return
if amount > 0:
Run
Banking System
MiniProject Banking system > Banking System.py
26:14 CRLF UTF-8 4 spaces Python 3.12 (MiniProject Banking system)
ENG IN
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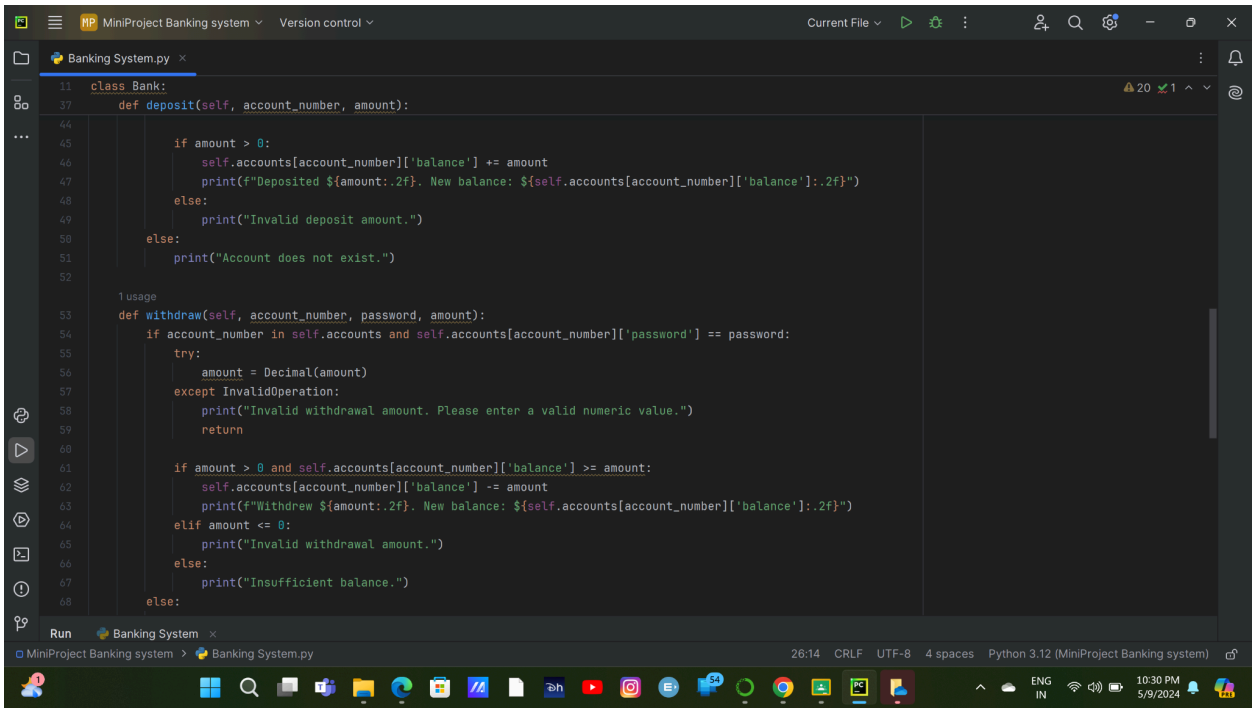
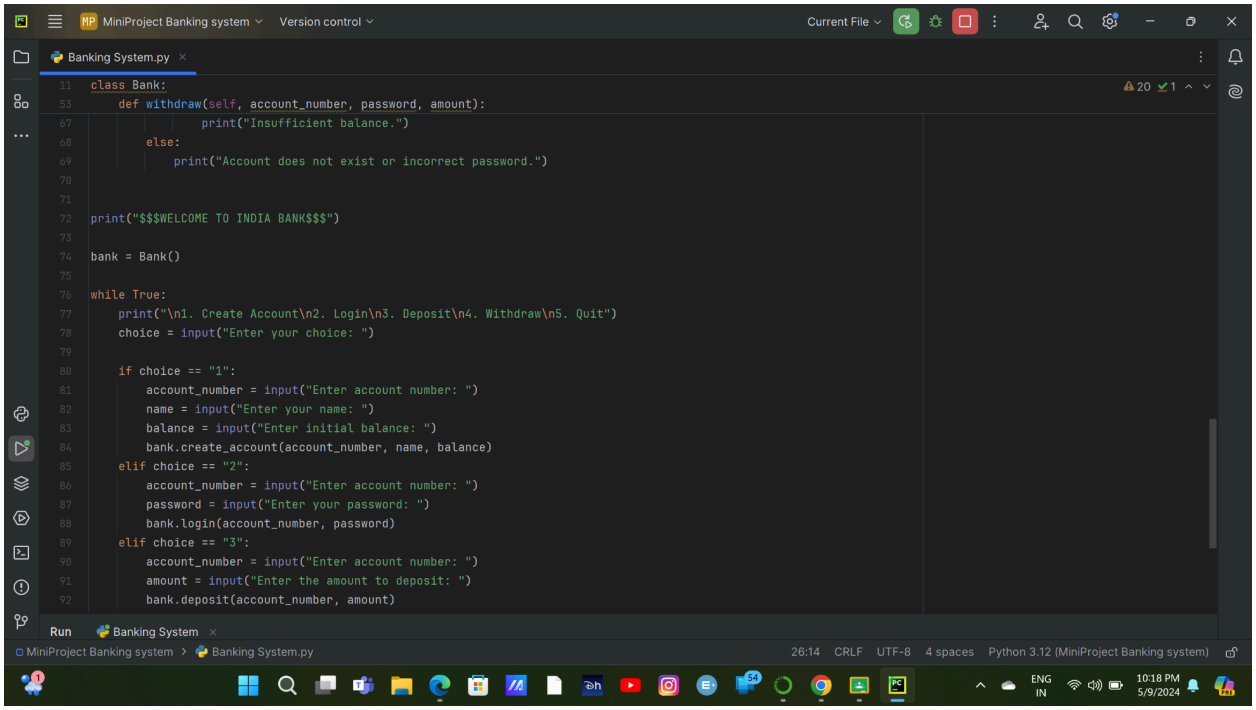

MiniProject Banking system
Version control
Current File
Banking System.py
class Bank:
def deposit(self, account_number, amount):
if amount > 0:
self.accounts[account_number]['balance'] += amount
print(f"Deposited ${amount:.2f}. New balance: ${self.accounts[account_number]['balance']:.2f}")
else:
print("Invalid deposit amount.")
else:
print("Account does not exist.")
1 usage
def withdraw(self, account_number, password, amount):
if account_number in self.accounts and self.accounts[account_number]['password'] == password:
try:
amount = Decimal(amount)
except InvalidOperation:
print("Invalid withdrawal amount. Please enter a valid numeric value.")
return
if amount > 0 and self.accounts[account_number]['balance'] >= amount:
self.accounts[account_number]['balance'] -= amount
print(f"Withdrew ${amount:.2f}. New balance: ${self.accounts[account_number]['balance']:.2f}")
elif amount <= 0:
print("Invalid withdrawal amount.")
else:
print("Insufficient balance.")
else:
Run
Banking System
MiniProject Banking system > Banking System.py
26:14 CRLF UTF-8 4 spaces Python 3.12 (MiniProject Banking system)
ENG IN
10:30 PM 5/9/2024


MiniProject Banking system
Version control
Current File
Banking System.py
class Bank:
def withdraw(self, account_number, password, amount):
print("Insufficient balance.")
else:
print("Account does not exist or incorrect password.")
print("$$$WELCOME TO INDIA BANK$$$")
bank = Bank()
while True:
print("\n1. Create Account\n2. Login\n3. Deposit\n4. Withdraw\n5. Quit")
choice = input("Enter your choice: ")
if choice == "1":
account_number = input("Enter account number: ")
name = input("Enter your name: ")
balance = input("Enter initial balance: ")
bank.create_account(account_number, name, balance)
elif choice == "2":
account_number = input("Enter account number: ")
password = input("Enter your password: ")
bank.login(account_number, password)
elif choice == "3":
account_number = input("Enter account number: ")
amount = input("Enter the amount to deposit: ")
bank.deposit(account_number, amount)
Run
Banking System
MiniProject Banking system
Banking System.py
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UTF-8
4 spaces
Python 3.12 (MiniProject Banking system)
ENG
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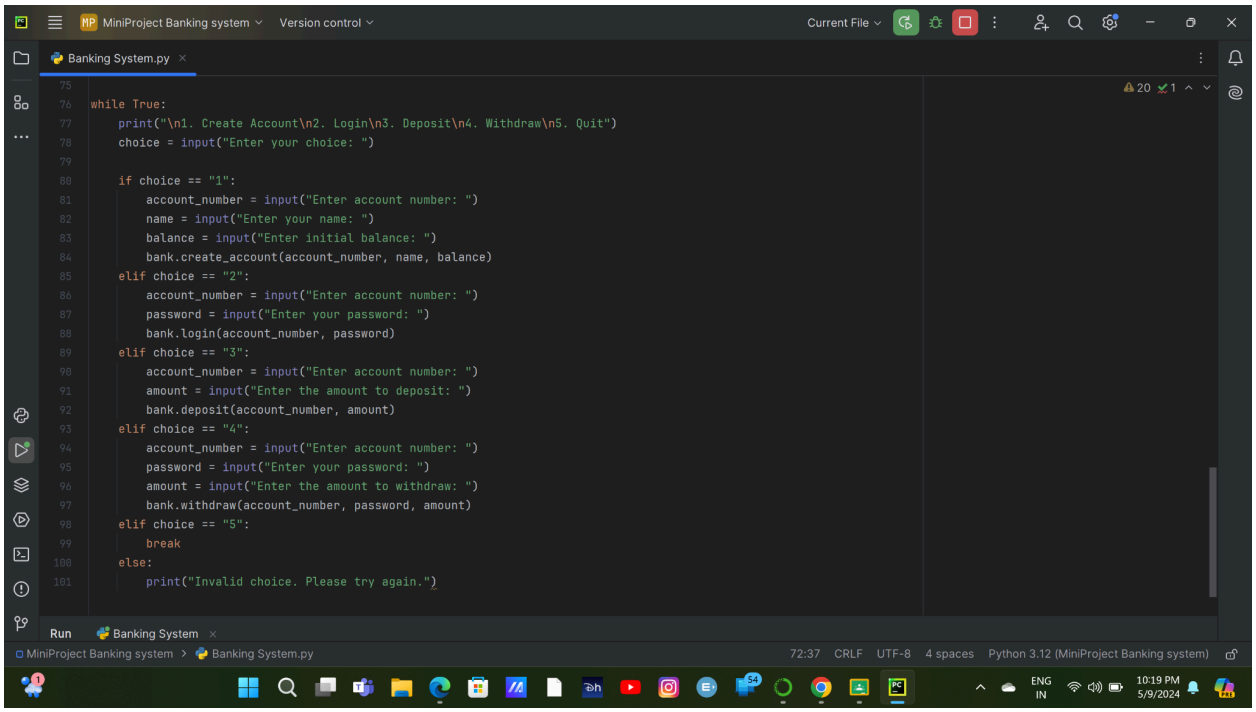
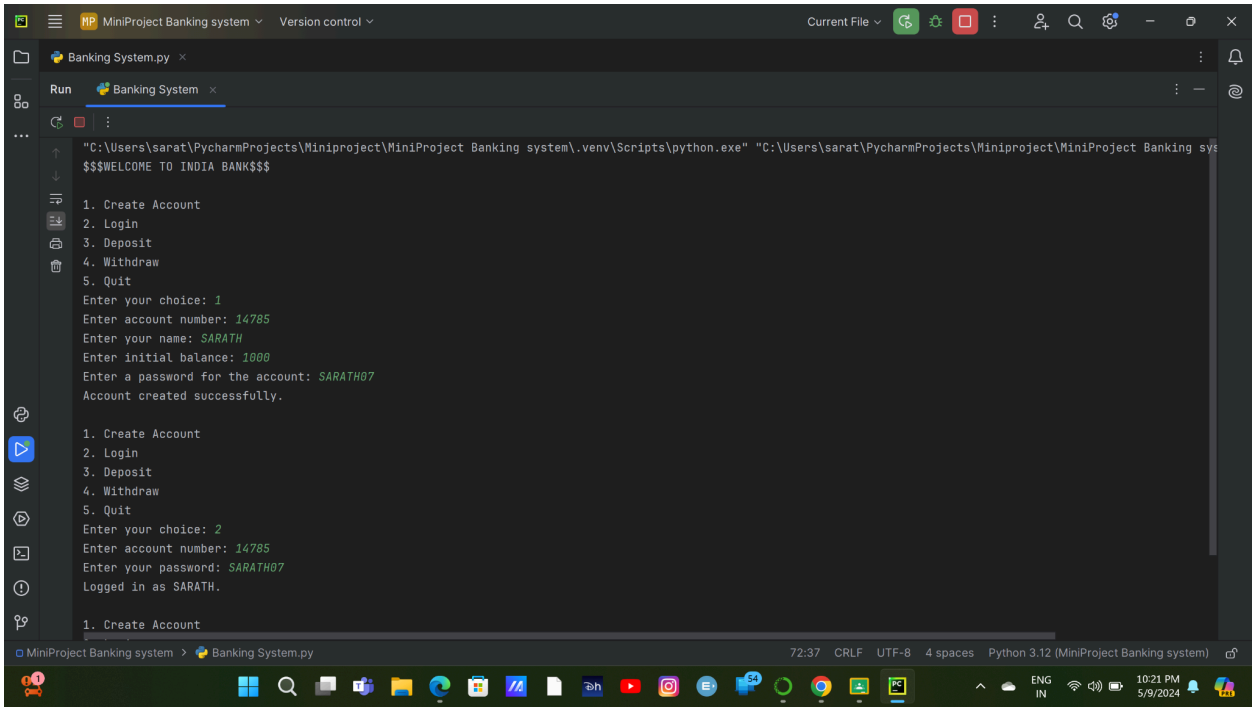
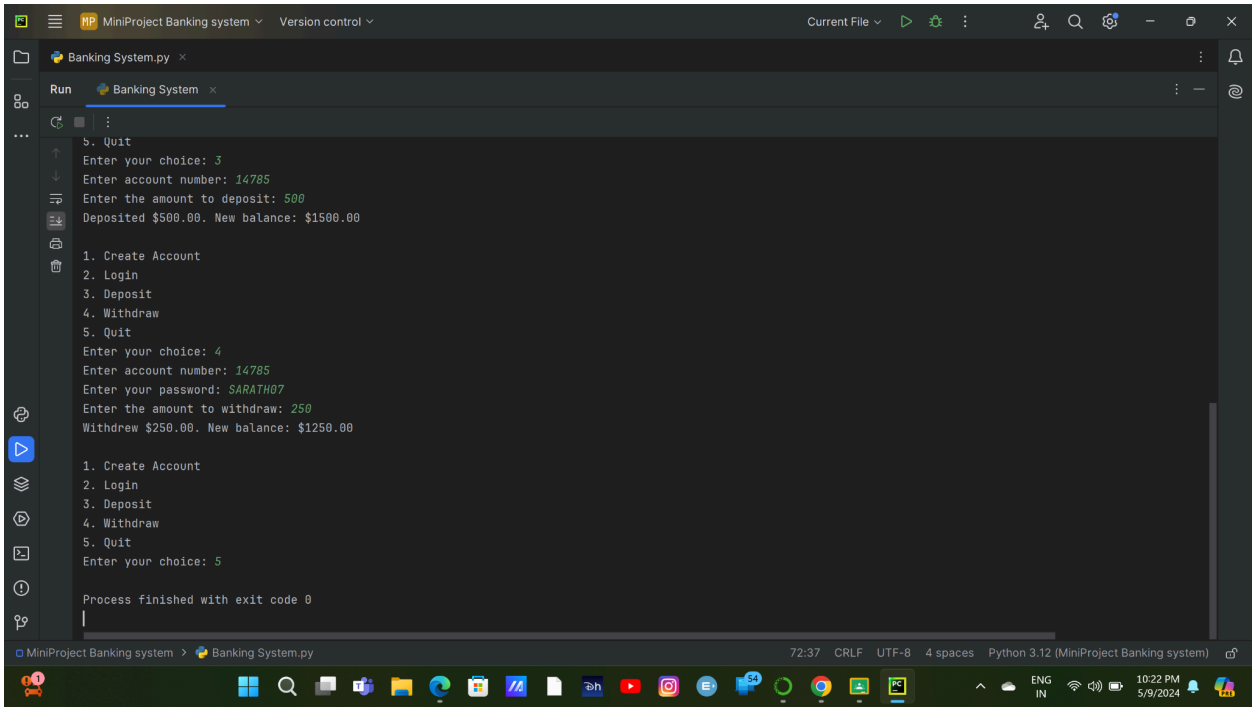

MiniProject Banking system
Version control
Current File
Banking System.py
while True:
print("\n1. Create Account\n2. Login\n3. Deposit\n4. Withdraw\n5. Quit")
choice = input("Enter your choice: ")
if choice == "1":
account_number = input("Enter account number: ")
name = input("Enter your name: ")
balance = input("Enter initial balance: ")
bank.create_account(account_number, name, balance)
elif choice == "2":
account_number = input("Enter account number: ")
password = input("Enter your password: ")
bank.login(account_number, password)
elif choice == "3":
account_number = input("Enter account number: ")
amount = input("Enter the amount to deposit: ")
bank.deposit(account_number, amount)
elif choice == "4":
account_number = input("Enter account number: ")
password = input("Enter your password: ")
amount = input("Enter the amount to withdraw: ")
bank.withdraw(account_number, password, amount)
elif choice == "5":
break
else:
print("Invalid choice. Please try again.")
Run
Banking System
MiniProject Banking system
Banking System.py
72:37
CRLF
UTF-8
4 spaces
Python 3.12 (MiniProject Banking system)
ENG
IN
10:19 PM
5/9/2024


MiniProject Banking system
Version control
Current File
Banking System.py
Run
Banking System
"C:\Users\sarat\PycharmProjects\Miniproject\MiniProject Banking system\.venv\Scripts\python.exe" "C:\Users\sarat\PycharmProjects\Miniproject\MiniProject Banking sys
$$$WELCOME TO INDIA BANK$$$
1. Create Account
2. Login
3. Deposit
4. Withdraw
5. Quit
Enter your choice: 1
Enter account number: 14785
Enter your name: SARATH
Enter initial balance: 1000
Enter a password for the account: SARATH07
Account created successfully.
1. Create Account
2. Login
3. Deposit
4. Withdraw
5. Quit
Enter your choice: 2
Enter account number: 14785
Enter your password: SARATH07
Logged in as SARATH.
1. Create Account
MiniProject Banking system
Banking System.py
72:37
CRLF
UTF-8
4 spaces
Python 3.12 (MiniProject Banking system)
ENG
IN
10:21 PM
5/9/2024


MiniProject Banking system
Version control
Current File
Banking System.py
Run
Banking System
5. Quit
Enter your choice: 3
Enter account number: 14785
Enter the amount to deposit: 500
Deposited $500.00. New balance: $1500.00
1. Create Account
2. Login
3. Deposit
4. Withdraw
5. Quit
Enter your choice: 4
Enter account number: 14785
Enter your password: SARATH07
Enter the amount to withdraw: 250
Withdrew $250.00. New balance: $1250.00
1. Create Account
2. Login
3. Deposit
4. Withdraw
5. Quit
Enter your choice: 5
Process finished with exit code 0
MiniProject Banking system
Banking System.py
72:37
CRLF
UTF-8
4 spaces
Python 3.12 (MiniProject Banking system)
ENG
IN
10:22 PM
5/9/2024