





## VIT Industrial Python 2018 Final Project

### **Bank Transaction Gateway**

Doc Link: **https://tinyurl.com/y6wtsejj**

**Code File Name -** VITPython2018-FinalProject-Code-(GroupNo).py

***At the start of your Code File enter the following information in comments--***

***#VIT Python 2018 Final Project***

***#group no - (M1/M2)***

***#Group Member 1 name - roll no***

***#Group Member 2 name - roll no***

Following is the **structure of the excel file** containing information about your bank’s users.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **User Id** | **A/c No.** | **Full Name (First Name + Last Name)** | **User Email** | **A/c Balance** | **A/c Status** |
| 1 | 18091022001 | 2018091022IND0345 | Karan Shah | (group partner 1 email ID) | 500 | Active |
| 2 | 18091022002 | 2018091022IND1453 | Manan Jain | (group partner 2 email ID) | 1000 | Active |
| 3 | 18091022003 | 2018091022IND5647 | Kunal Patil | (group partner 1 email ID) | 300 | Active |
| 4 | 18091022004 | 2018091022IND3455 | Ajay Ranade | (group partner 2 email ID) | 450 | Active |
| 5 | 18091022005 | 2018091022IND9823 | Tushar Shinde | (group partner 2 email ID) | 1560 | Active |

**Workbook Name** - VITPython18-FinalProject-Workbook.xlsx

**Worksheet Name** - UserDetails

**Stage 1 : User Validity … 1 point**

* Ask user to enter Full Name
* If Full Name not there then tell invalid User
* If there then ask user to enter Bank Account No
* If A/c no not there then tell Invalid User
* If both correct then **proceed to Stage 2**
* Give user three tries. If invalid input in all three tries then change account status from Active to Blocked and print Account Blocked and print **quit program in Stage 1**

**Stage 2: OTP Generation … 1 point**

* Through code generate a 4 digit random OTP number
* Send this OTP to that User’s via email
* Then ask user to enter OTP from mail. Match this OTP with one generated in code.
* If OTP matches then **go to Stage 3**. Else say Invalid OTP.
* Give user three tries. If wrong OTP in all three tries then change account status from Active to Blocked and print Account Blocked and print **quit program in Stage 2**

**Stage 3 : Choice of transaction … 1 point**

* Ask user which type of transaction he wishes to do. ‘C’ for credit money and ‘D’ for debit money
* If User enters any other input here then handle error and print Invalid Input. Again give user three tries and if all wrong then change account status from Active to Blocked and print Account Blocked and print **quit program in Stage 3**
* If correct input then print current balance
* Then ask user for amount to be credited or debited
* Add or subtract amount entered by user to the current account balance and print the final account balance and write the same to account balance cells in excel workbook.
* **Print “Successful Transaction of Rs.\_\_\_\_\_\_ completed”**