

```
1 import time
2
3 def atm():
4     acc='29876543210'
5     print("please insert the card")
6     time.sleep(3)
7     print('Thank you for inserting the card. Please
    wait')
8     time.sleep(5)
9     print('please insert the two digit number')
10    while True:
11        k=input()
12        try:
13            if (len(k)!=2):
14                raise ValueError
15        except ValueError as e:
16            print("Try again!")
17            continue
18        break
19
20    print('select PIN GENERATION on the screen')
21
22    while True:
23        acc1=input('enter your 11 digit account
    number: ')
24        try:
25            assert acc1==acc
26        except AssertionError as e:
27            print("Try again!")
28            continue
29        break
30
31    print("Enter your 10 digit mobile number
    registered with your bank account")
32    while True:
33        l=input()
34        try:
35            if (len(l)!= 10) :
36                raise ValueError
37        except ValueError as e:
38            print('Please enter 10 digit mobile
    number')
39            continue
40        break
```

```
41
42     print('Your green pin will be shortly delivered
to your registered mobile number')
43     time.sleep(2)
44     print("Your green pin generation has been
successful")
45     otp='1234'
46     print(otp)
47     print('\n')
48     print("Welcome to SBI")
49     print('select BANKING->CHANGE PIN')
50     print('Enter SBI PIN \t\t\tenter the otp
received on the registered mobile number')
51     while True:
52         otp1=input()
53         try:
54             assert otp1 == otp
55         except AssertionError as e:
56             print("Try again!")
57             continue
58         break
59     print('successful')
60
61 def sms():
62     mobile='8910020229'
63     card_number='12345678901'
64     acc_number='29876543210'
65     card='8901'
66     acc='3210'
67     otp='4567'
68
69     while True:
70         try:
71             k=input('Please enter your mobile number
registered with bank account')
72             assert k == mobile
73         except AssertionError as e:
74             print('Please enter the mobile number
registered with bank')
75             continue
76         break
77
78     while True:
79         x=input('Enter last 4 digits of your card number: ')
```

```
79 )
80 y=input('Enter last 4 digits of your account
    number: ')
81 try:
82     assert x==card
83     assert y==acc
84 except AssertionError as e:
85     print("Caught this error: ",repr(e))
86     continue
87 break
88
89 print('PIN'+x+y)
90 print("OTP is sent to 89****29")
91 print('OTP is',otp)
92
93
94
95
96 def netbank():
97     id1='Sheldon Cooper'
98     password='a12bc3@4'
99     otp='4682'
100    c='25'
101    print('Welcome to the official website of sbi')
102    while True:
103        try:
104            id2=input('id: ')
105            pwd1=input('password: ')
106            assert id2 == id1
107            assert pwd1 == password
108        except AssertionError as e:
109            print("sorry")
110            continue
111        break
112
113    print('Select E-services->ATM Card Services->ATM
    PIN Generation')
114    while True:
115        try:
116            a=input('Enter OTP password')
117            assert a == otp
118        except AssertionError as e:
119            print("sorry")
120            continue
```

```
121     break
122
123
124     print('Select Account Number->Debit Card')
125
126     while True:
127         b=input('Enter first 2 digits of the PIN of your
choice: ')
128         try:
129             if (len(b)!=2):
130                 raise ValueError
131         except ValueError as e:
132             print("Try again!")
133             continue
134         break
135     print('Last 2 digits will be sent to the registered
mobile number. Please wait')
136     time.sleep(2)
137     print('last 2 digits ',c)
138     print('Please enter all the 4 digits(first 2 digits
self chosen and last 2 digits displayed')
139
140     while True:
141         d=input()
142         try:
143             if (d!= b+c):
144                 raise ValueError
145         except ValueError as e:
146             print('Try again!')
147             continue
148         break
149     print("succesful")
150
151
152
153
154     def ivrs():
155         card_number='12345678901'
156         acc_number='29876543210'
157         card='78901'
158         acc='29876'
159         otp='4567'
160
161     while True:
```

```
162     x=input('Enter last 5 digits of your card number
: ')
163     y=input('Enter first 5 digits of your account
number: ')
164     try:
165         assert x==card
166         assert y==acc
167     except AssertionError as e:
168         print("Try again!")
169         continue
170     break
171
172     print("Your OTP is: ",otp)
173     print("Use this OTP to create a new PIN by visiting
an SBI ATM")
174
175     print('Dear customer, Thank you for reposing trust
in us \n Please generate your:')
176     print("1. SMS")
177     print("2. ATM")
178     print("3. INTERNET BANKING")
179     print("4. IVRS")
180     while True:
181         choice = input()
182         try:
183             choice = int(choice)
184         except:
185             print('\nPlease input numeric.Try again\n')
186             continue
187         if choice < 1:
188             print('Please enter valid choice. Try again\n')
189             continue
190         if choice > 4:
191             print('Please enter valid choice. Try again\n')
192             continue
193         break
194
195
196     if choice==1:
197         sms()
198     if choice==2:
199         atm()
200     if choice==3:
201         netbank()
```

```
202 if choice==4:  
203     ivrs()
```