```cpp
#include <iostream>

using namespace std;

int main()
{
    //initializing of ussd
    string ussd = "*177#";
    int digit= 0;
    //the digit and the code both check for the input of 4-digit code
    int code= digit;
    int user,number,amount=0;
    //this is the pin to made the transaction.
    int pin;
    //this allows a user to choose the input.
    int option=0;


    cin>>ussd;


    if(ussd == "*177#"){

        cout<<"please enter your 4-digit code"<<endl;
        cin>>digit;
        //here is were you will enter your unique code.
        if(digit <= 10000){
            cout<<"welcome to customer service center"<<endl;
            cout<<"*********************************"<<endl;
            cout<<"please confirm your 4-unique code"<<endl;
            cin>>code;

//if the digit id equals to the code, it will permit u to have access to our service.
            if(digit==code){
//a user has to choose among any of the offer.
    cout<<" please Press: \n 1:Transfer Money. \n 2:Pay Bills. \n 3:Buy Airtime. \n 4:Withdrawing or
Depositing. \n 99:TO Abort"<<endl;
    //user's input.
    cin>>user;
    if(user==1){
            cout<<"TRANSFER MONEY"<<endl;
            cout<<"please enter Receiver's number"<<endl;
            cin>>number;
            cout<<"please re-enter Receiver's number"<<endl;
            cin>>number;
            cout<<"enter Amount"<<endl;
              cin>>amount;
              //overview of transact made.
              cout<<"number:+233"<<number<<" \n "<<"amount:$"<<amount<<endl;
            cout<<"***************"<<endl;
              cout<<"enter your 4-unique code"<<endl;
              cin>>pin;

              if(pin==code){
                cout<<"Transaction made successful"<<endl;
              }
              else if(pin != code){
          cout<<"check your 4-unique"<<endl;
      }
    //ending of the transferring.
      }
    //begins of pay bills.
      else if(user==2){
              cout<<"PAY BILLS"<<endl;
              cout<<" press \n 1:TO Pay Water Bill \n 2:To Pay Electricity Bill \n 3:To Pay DSTV Bill"<<endl;
              cin>>option;
```

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66              //paying of water bill
67          if(option==1){
68              cout<<"PAY WATER BILL"<<endl;
69              cout<<"enter meter number"<<endl;
70              cin>>number;
71              cout<<"enter amount to be paid"<<endl;
72              cin>>amount;
73              //overview.
74              cout<<"Meter number:"<<number<<" amount:$"<<amount<<endl;
75              //4 unique code
76              cout<<"********************"<<endl;
77              cout<<"enter your 4-unique code"<<endl;
78          cin>>pin;
79
80              //here is to confirm that pin ==code
81           if(pin==code){
82              cout<<"Payment made successful"<<endl;
83              }
84           else if(pin != code){
85      cout<<"check your 4-unique"<<endl;
86      }
87
88              }
89          //end of paying water bill.
90
91          //begins of paying of electricity bills.
92      else if(option==2){
93              cout<<"PAY YOUR ELECTRICITY BILL"<<endl;
94              cout<<"enter meter number"<<endl;
95              cin>>number;
96              cout<<"enter amount to be paid"<<endl;
97              cin>>amount;
98              //overview.
99              cout<<"Meter number:"<<number<<" amount:$"<<amount<<endl;
100             //4 unique code
101             cout<<"********************"<<endl;
102             cout<<"enter your 4-unique code"<<endl;
103         cin>>pin;
104
105             //here is to confirm that pin ==code
106          if(pin==code){
107             cout<<"Payment made successful"<<endl;
108     }
109     else if(pin != code){
110         cout<<"check your 4-unique"<<endl;
111     }
112     //ending of verification of code.
113             }
114
115             //begins of paying DSTV bills
116         else if(option==3){
117             cout<<"PAY YOUR DSTV BILL"<<endl;
118             cout<<"enter DSTV number"<<endl;
119             cin>>number;
120             cout<<"enter amount to be paid"<<endl;
121             cin>>amount;
122             //overview.
123             cout<<"DSTV number:"<<number<<" amount:$"<<amount<<endl;
124             //4 unique code
125             cout<<"********************"<<endl;
126             cout<<"enter your 4-unique code"<<endl;
127          cin>>pin;
128
129             //here is to confirm that pin ==code
130          if(pin==code){
131             cout<<"Payment made successful"<<endl;
```

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132        }
133        else if(pin != code){
134            cout<<"check your 4-unique"<<endl;
135        }
136        //ending of verification of code.
137                }
138                //end of paying of DSTV BILLS.
139            //end of paying bills
140        }
141        //begins of buying airtime.
142        if(user==3){
143                cout<<"BUYING OF AIRTIME"<<endl;
144                cout<<"please enter your phone number"<<endl;
145                cin>>number;
146                cout<<"please re-enter your phone number"<<endl;
147                cin>>number;
148                cout<<"enter Amount"<<endl;
149                  cin>>amount;
150                  //overview of transact made.
151                  cout<<"number:+233"<<number<<" \n "<<"amount:$"<<amount<<endl;
152                cout<<"***************"<<endl;
153                  cout<<"enter your 4-unique code"<<endl;
154                  cin>>pin;
155
156                  if(pin==code){
157                     cout<<"Transaction made successful"<<endl;
158                  }
159                  else if(pin != code){
160            cout<<"check your 4-unique"<<endl;
161        }
162    //ending of the buying airtime
163        }
164      //begin of withdrawing or depositing.
165      else if(user==4){
166          cout<<"WITHDRAWING OR DEPOSITING"<<endl;
167          cout<<"Press \n 1:To withdraw money \n 2:To Deposit"<<endl;
168            //this allows the user to enter an option
169          cin>>option;
170          //begins the withdrawing
171          if(option==1){
172             cout<<"Withdrawing Money"<<endl;
173             cout<<"******************"<<endl;
174             cout<<"please enter your Account Number"<<endl;
175             cin>>number;
176             cout<<"please re-enter your account number"<<endl;
177             cin>>number;
178             cout<<"Please enter Amount"<<endl;
179             cin>>amount;
180
181
182             //overview
183             cout<<"account number:"<<number<<" Amount:$"<<amount<<endl;
184
185             //confirm and sending with your 4-unique code
186               cout<<"enter your 4-unique code"<<endl;
187               cin>>pin;
188
189               if(pin==code){
190                  cout<<"Transaction made successful"<<endl;
191               }
192               else if(pin != code){
193          cout<<"check your 4-unique"<<endl;
194        }
195        //end of withdrawing
196            }
197
```

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198              //begins of depositing
199          else if(option==2){
200               cout<<"DEPOSITING MONEY"<<endl;
201           cout<<"******************"<<endl;
202           cout<<"please enter your Account Number"<<endl;
203           cin>>number;
204           cout<<"please re-enter your account number"<<endl;
205           cin>>number;
206           cout<<"Please enter Amount"<<endl;
207           cin>>amount;
208
209
210           //overview
211           cout<<"account number:"<<number<<" Amount:$"<<amount<<endl;
212
213           //confirm and sending with your 4-unique code
214             cout<<"enter your 4-unique code"<<endl;
215            cin>>pin;
216
217            if(pin==code){
218              cout<<"Transaction made successful"<<endl;
219            }
220            else if(pin != code){
221        cout<<"check your 4-unique"<<endl;
222     }
223      //end of depositing
224
225         }
226
227
228       //but if the 4-digit code is more than 4, it will break.
229       else if(digit >10000){
230           cout<<"wrong 4-digit entered"<<endl;
231       }
232   }
233
234     //here is to terminate the whole program.
235    else if(user==99){
236        cout<<"Thanks for using Our Service"<<endl;
237    }
238
239
240
241
242        }
243        else if(digit!=code){
244            cout<<"please check your 4-unique code"<<endl;
245        }
246   }
247   //if ussd code is wrongly entered.
248
249    }
250     else { cout<<"check ussd code entered"<<endl;
251
252   }
253    return 0;
254 }
255
256
257
258
259
```