

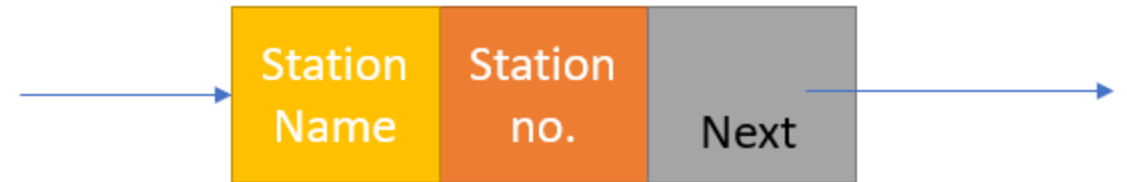
NAMMA METRO APPLICATION

ABSTRACT

- This application shows the number of metro stations present in the Bangalore city. There are total of 40 stations in Bangalore.
- This application has a fare calculator with which we can see the prices from station to station.
- In this application we can even recharge the smart card(varshik).
- This application even shows the balance of the smart card(varshik).

CLASSES AND MODULES

- Class stnNameFrmNo
 - Attributes:
 - node head ;
 - Int size;
 - Functions:
 - void insertStnIntoList(String d,double p);
 - String retStnNamne(double stn);
 - void insertStations();



CLASSES AND MODULES

- Class dataForTicketGen

- Attributes:

- nde front, rear;

- Functions:

- String displayDataForVarshik(double s1,double s2);
 - void insertIntoList(int s1,int s2,double t);
 - void insertTicketdata();
 - String displayDataForTokken(double s1,double s2);
 - String displayDataForVarshik(double s1,double s2);



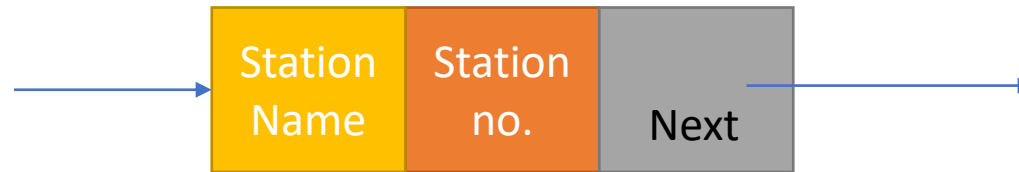
CLASSES AND MODULES

- class transactionSheet
 - Attributes:
 - traNode head;
 - Functions:
 - void push(double ele);
 - void display();
 - void getStore();
 - String peek();

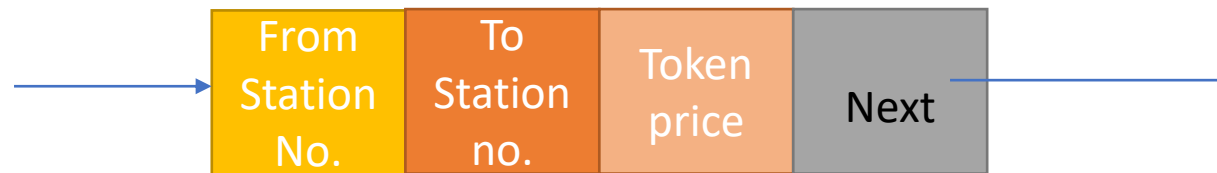


DATA STRUCTURES USED

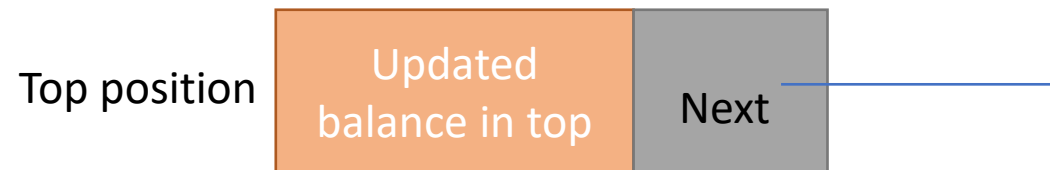
- Linked list-1, in which each node has a 2 data parts and the next part. This data structure is used for determining the station no. with station name.



- Linked list-2, in which each node consists of 3 data parts which are from station no. , to station no., and token value price and a next node address part.



- Stack using linked list- in which the balance of the smart card is updated.



SAMPLE CODE

```
class nde
{
    int st1,st2;
    double token;
    nde next;
    nde()
    {
        next=null;
    }
    nde(int s1,int s2,double t)
    {
        st1=s1;
        st2=s2;
        token=t;
        next=null;
    }
}

public class dataForTicketGen
{
    nde front,rear;
    dataForTicketGen()
    {
        front=rear=null;
    }
    dataForTicketGen(int s1,int s2,double t)
    {
        front=rear=new nde(s1,s2,t);
    }

    String displayDataForTokken(double s1,double s2)
    {
        nde t=this.front;
        String p;
        while(t!=null)
        {
            if(t.st1==s1&& t.st2==s2)
            {
                break;
            }
            t=t.next;
        }
        p=Double.toString(t.token);
    }
}
```

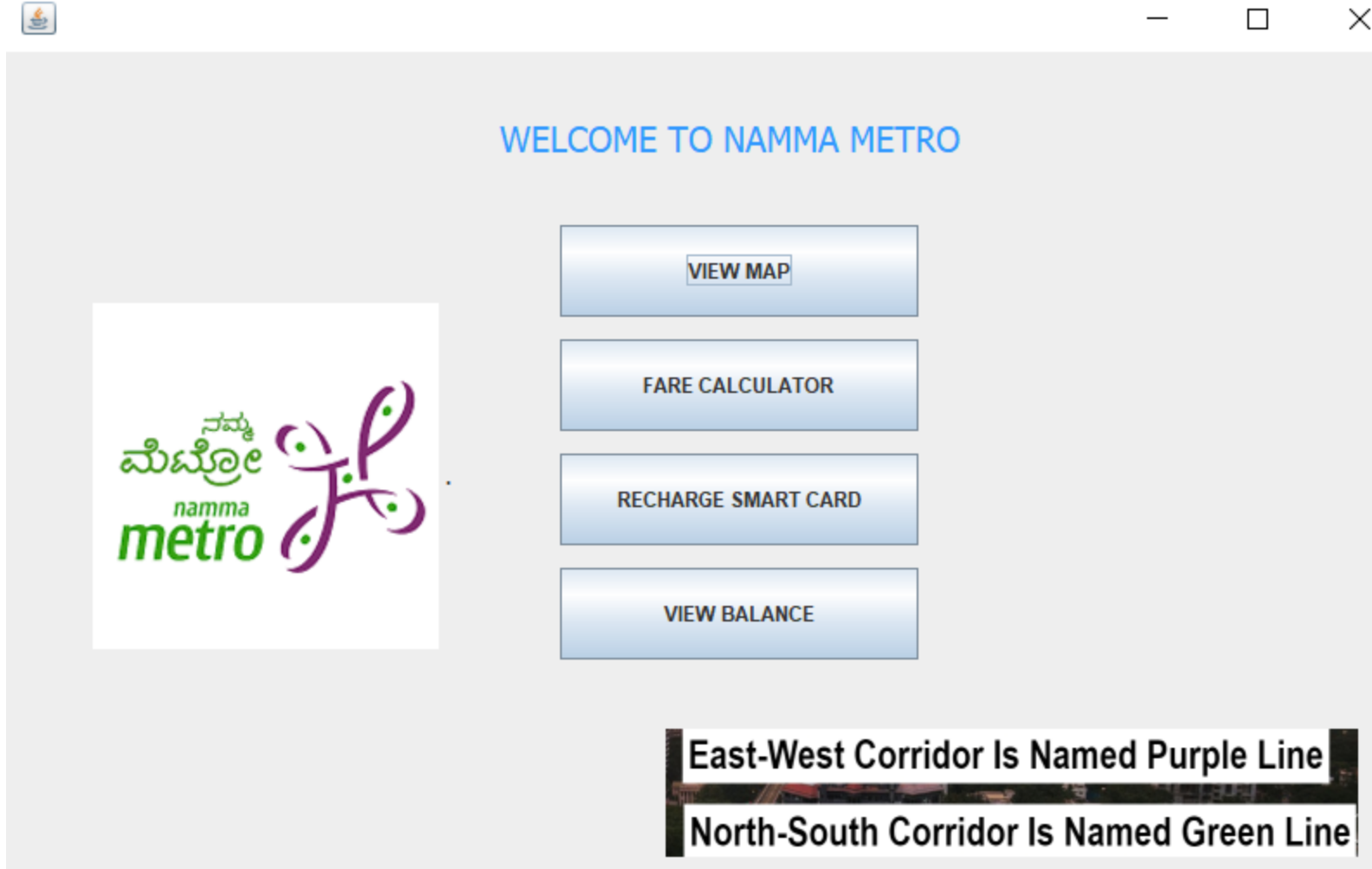
```
        return p;
    }
    String displayDataForVarshik(double s1,double s2)
    {
        nde t=this.front;
        while(t!=null)
        {
            if(t.st1==s1&& t.st2==s2)
            {
                break;
            }
            t=t.next;
        }
        double varshik=t.token*(95/100.0);
        String p=Double.toString(varshik);
        return p;
    }
}

String displayDataForGroup(double s1,double s2)
{
    nde t=this.front;
    while(t!=null)
    {
        if(t.st1==s1&& t.st2==s2)
        {
            break;
        }
        t=t.next;
    }
    double group=t.token*(90/100.0);
    String p=Double.toString(group);
    return p;
}
```

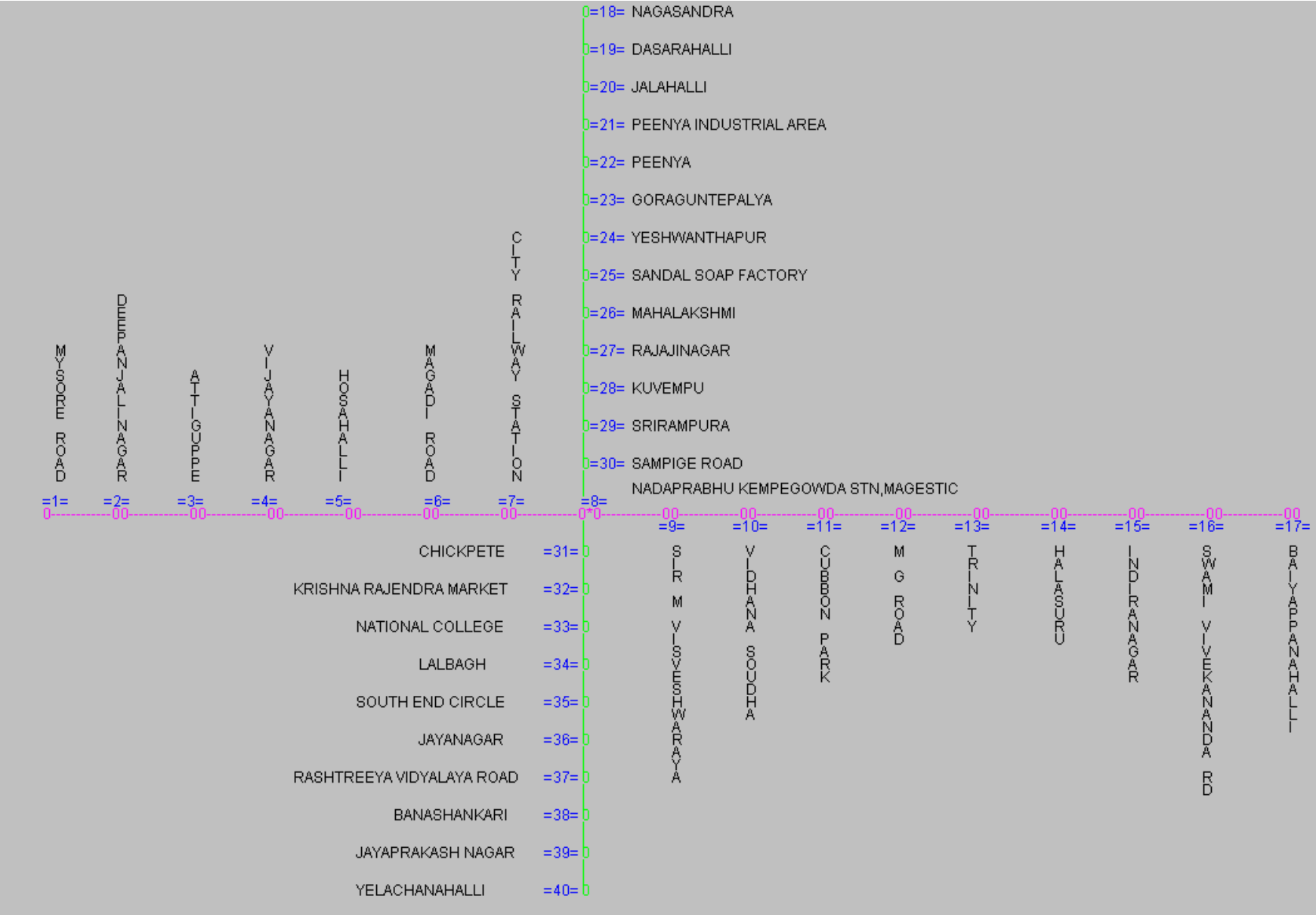
```
void insertIntoList(int s1,int s2,double t)
{
    nde temp=new nde(s1,s2,t);
    if(rear==null)
    {
        rear=front=temp;
    }
    else
    {
        rear.next=temp;
        rear=rear.next;
    }
}

void insertTicketdata()
{
    this.insertIntoList(1, 1, 10);
    this.insertIntoList(1, 2, 10); //from mysore to all other stations
    this.insertIntoList(1, 3, 15);
    this.insertIntoList(1, 4, 15);
    this.insertIntoList(1, 5, 18);
    this.insertIntoList(1, 6, 20);
    this.insertIntoList(1, 7, 22);
    this.insertIntoList(1, 8, 25);
    this.insertIntoList(1, 9, 28);
    this.insertIntoList(1, 10, 30);
    this.insertIntoList(1, 11, 30);
    this.insertIntoList(1, 12, 35);
    this.insertIntoList(1, 13, 35);
    this.insertIntoList(1, 14, 38);
    this.insertIntoList(1, 15, 40);
    this.insertIntoList(1, 16, 42);
    this.insertIntoList(1, 17, 45);
    this.insertIntoList(1, 18, 52);
    this.insertIntoList(1, 19, 50);
    this.insertIntoList(1, 20, 50);
    this.insertIntoList(1, 21, 45);
    this.insertIntoList(1, 22, 45);
    this.insertIntoList(1, 23, 40);
    this.insertIntoList(1, 24, 38);
    this.insertIntoList(1, 25, 35);
    this.insertIntoList(1, 26, 35);
    this.insertIntoList(1, 27, 35);
    this.insertIntoList(1, 28, 30);
    this.insertIntoList(1, 29, 30);
}
```

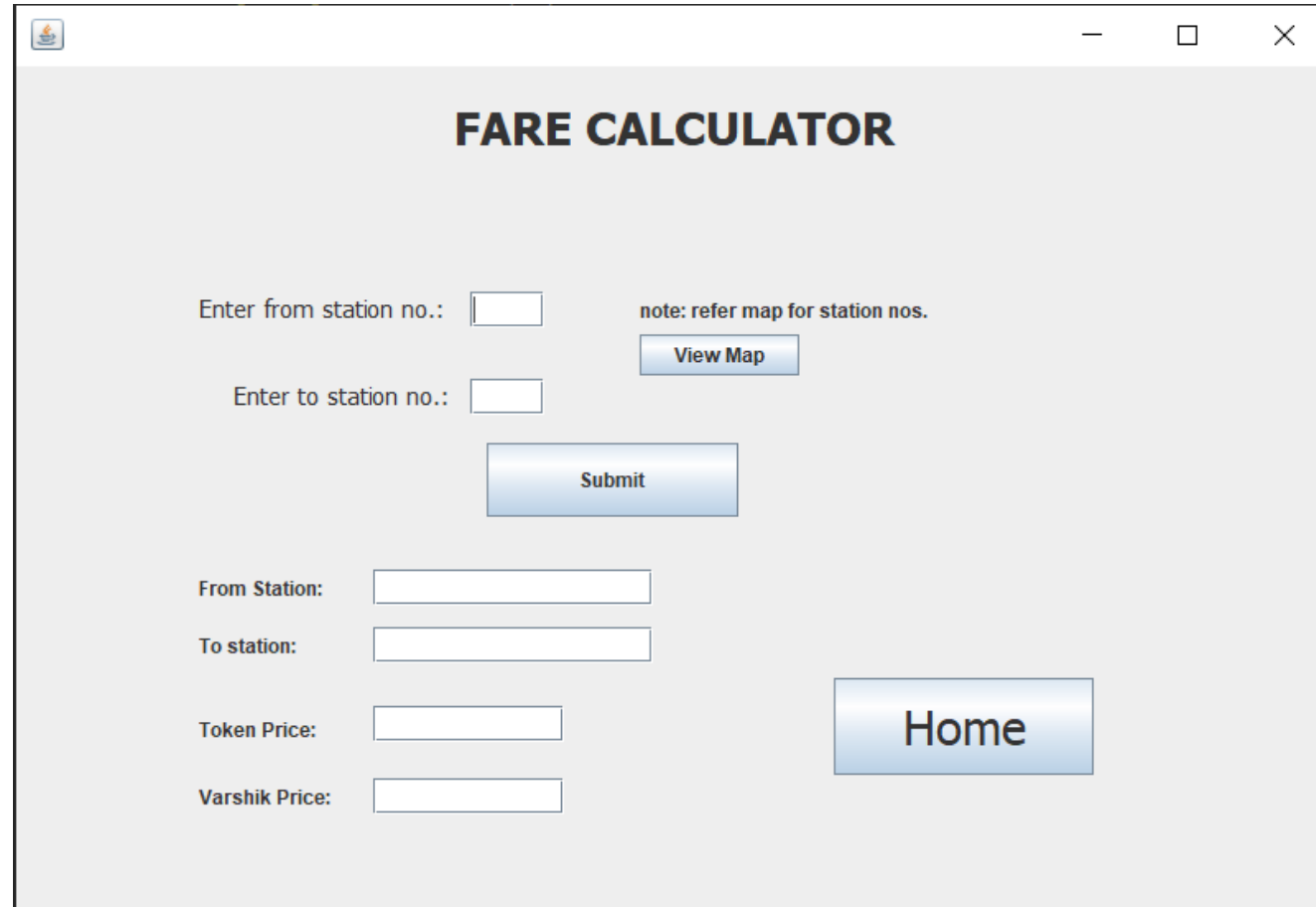
MAIN PAGE



METRO MAP:



FARE CALCULATOR



The screenshot shows a web application window titled "FARE CALCULATOR". The window has a standard title bar with a small icon on the left and minimize, maximize, and close buttons on the right. The main content area has a light gray background. At the top center, the title "FARE CALCULATOR" is displayed in bold black text. Below the title, there are two input fields for station numbers. The first field is labeled "Enter from station no.:" and the second is labeled "Enter to station no.:". To the right of the first input field, there is a note: "note: refer map for station nos." and a "View Map" button. Below the second input field, there is a "Submit" button. Further down, there are four more input fields: "From Station:", "To station:", "Token Price:", and "Varshik Price:". To the right of these fields, there is a "Home" button.

FARE CALCULATOR

Enter from station no.: note: refer map for station nos. [View Map](#)

Enter to station no.:

[Submit](#)

From Station:


To station:

Token Price:

Varshik Price:

[Home](#)

RECHARGE

— □ ×

SMART CARD RECHARGE (VARSHIK)

Enter amount:

Enter your varshik card no.:

Enter your credit/debit card no.:

Expiry(mm/yyyy):

(mm) ▾

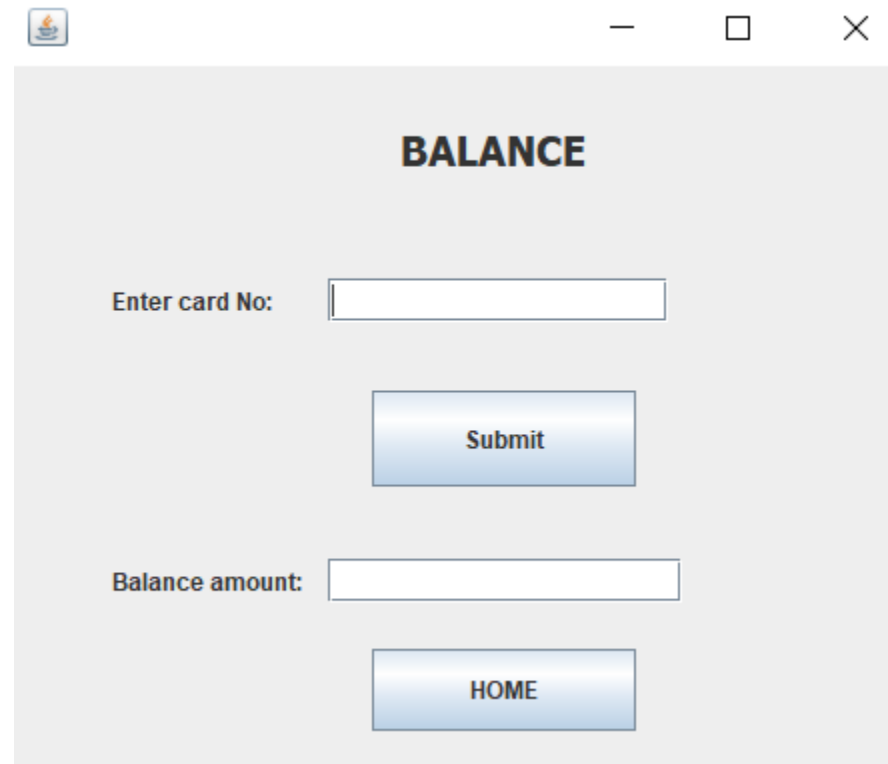
(yyyy) ▾

Submit

HOME

UPDATED BALANCE:

CARD BALANCE



BALANCE

Enter card No:

Submit

Balance amount:

HOME