COMPREHENSIVE ASSIGNMENT

OBJECT ORIENTED PROGRAMMING

(2CS302)

TOPIC: Develop the Java program for the home loan portal With Following Functionalities:

- Scan the user details from the user and store it to UserDetails.txt file.
- Scan the Loan Payment Details from the user and store it to LoanPaymentDetails.txt file.
- Display the summary details of loan repayment for each loan year-wise.
- Display the summary details of loan repayment for each loan year-wise month-wise.

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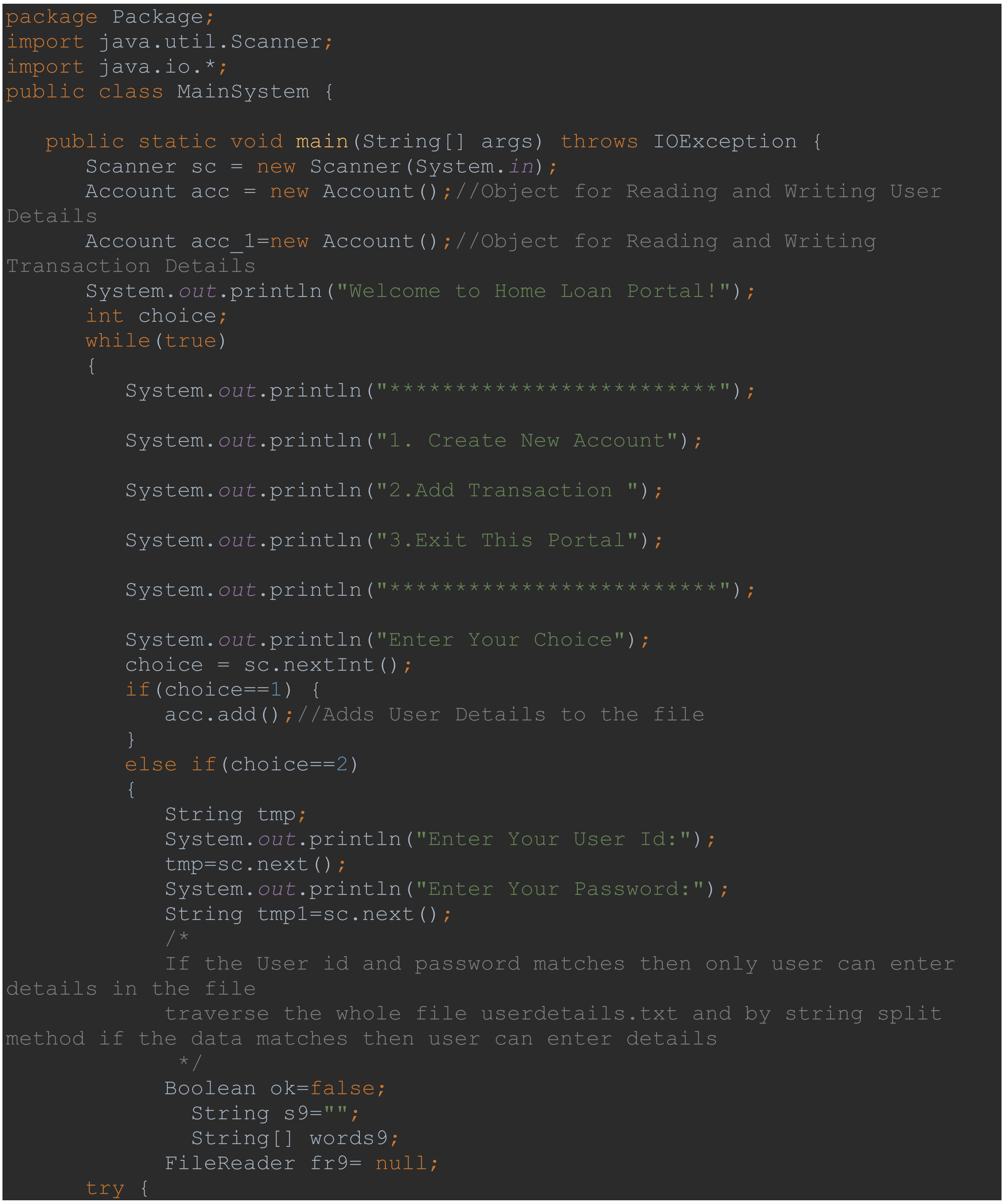
DEPARTMENT:COMPUTER SCIENCE AND ENGINEERING

1. MAINSYSTEM.JAVA

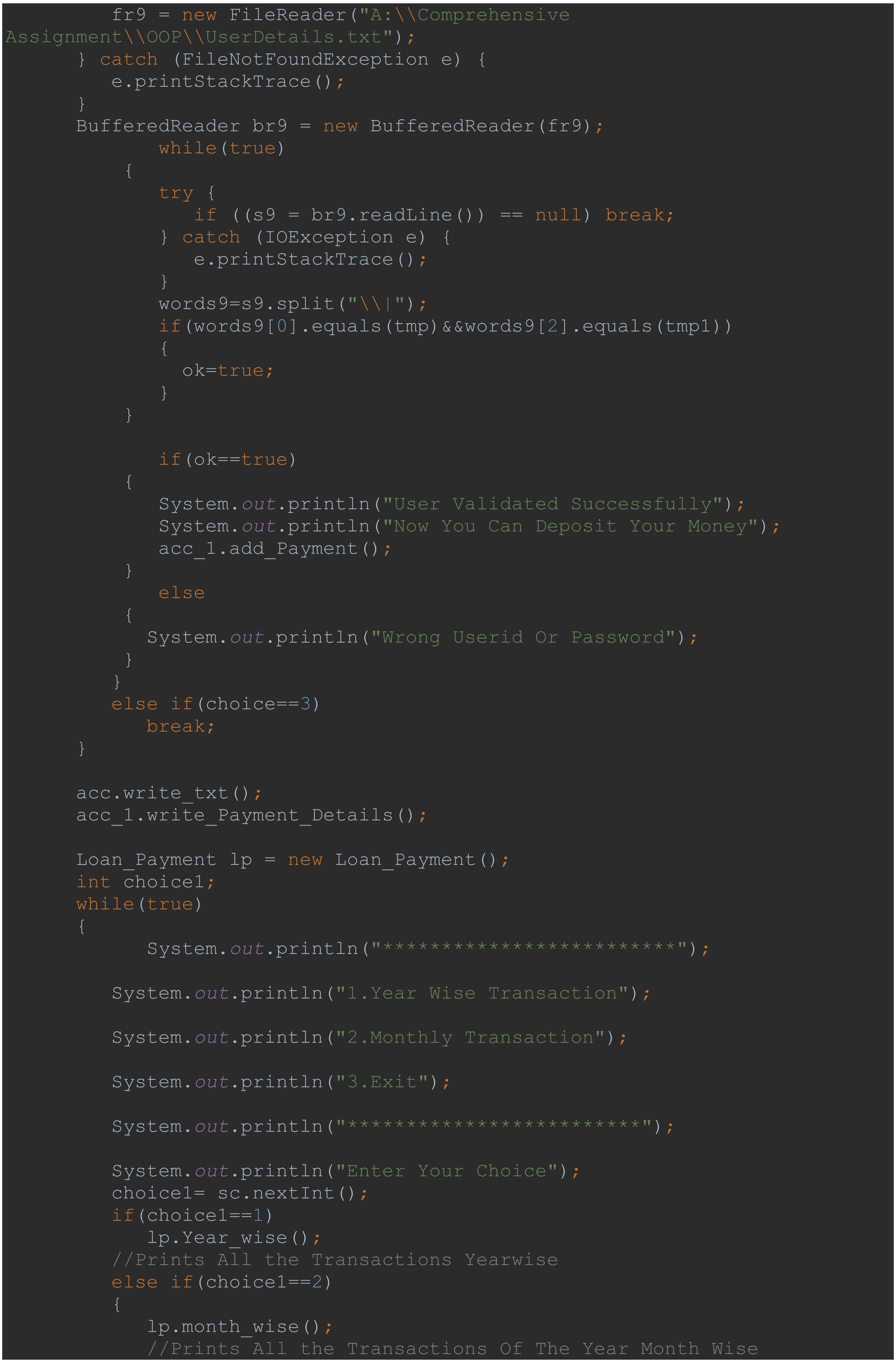
This Class Contains main method And It Takes Input From the user of user details and bank transaction. The 2 Arrays of Object Of Class Account has been Created here to take seprate input of user details and transaction details.

It Also Calls the method to display all the details month wise and year wise .The Code is menu Driven.

CODE:



```
package Package;
import java.util.Scanner;
import java.io.*;
public class MainSystem {

   public static void main(String[] args) throws IOException {
      Scanner sc = new Scanner(System.in);
      Account acc = new Account();//Object for Reading and Writing User
Details
      Account acc_1=new Account();//Object for Reading and Writing
Transaction Details
      System.out.println("Welcome to Home Loan Portal!");
      int choice;
      while(true)
      {
         System.out.println("*************************");

         System.out.println("1. Create New Account");

         System.out.println("2.Add Transaction ");

         System.out.println("3.Exit This Portal");

         System.out.println("*************************");

         System.out.println("Enter Your Choice");
         choice = sc.nextInt();
         if(choice==1) {
            acc.add();//Adds User Details to the file
         }
         else if(choice==2)
         {
            String tmp;
            System.out.println("Enter Your User Id:");
            tmp=sc.next();
            System.out.println("Enter Your Password:");
            String tmp1=sc.next();
            /*
            If the User id and password matches then only user can enter
details in the file
            traverse the whole file userdetails.txt and by string split
method if the data matches then user can enter details
             */
            Boolean ok=false;
              String s9="";
              String[] words9;
            FileReader fr9= null;
      try {
```



```
         fr9 = new FileReader("A:\\Comprehensive 
Assignment\\OOP\\UserDetails.txt");
      } catch (FileNotFoundException e) {
         e.printStackTrace();
      }
      BufferedReader br9 = new BufferedReader(fr9);
             while(true)
          {
             try {
                if ((s9 = br9.readLine()) == null) break;
             } catch (IOException e) {
                e.printStackTrace();
             }
             words9=s9.split("\\|");
             if(words9[0].equals(tmp)&&words9[2].equals(tmp1))
             {
               ok=true;
             }
          }

             if(ok==true)
          {
             System.out.println("User Validated Successfully");
             System.out.println("Now You Can Deposit Your Money");
             acc_1.add_Payment();
          }
             else
          {
            System.out.println("Wrong Userid Or Password");
          }
         }
         else if(choice==3)
            break;
      }

      acc.write_txt();
      acc_1.write_Payment_Details();

      Loan_Payment lp = new Loan_Payment();
      int choice1;
      while(true)
      {
            System.out.println("**************************");

         System.out.println("1.Year Wise Transaction");

         System.out.println("2.Monthly Transaction");

         System.out.println("3.Exit");

         System.out.println("**************************");

         System.out.println("Enter Your Choice");
         choice1= sc.nextInt();
         if(choice1==1)
            lp.Year_wise();
         //Prints All the Transactions Yearwise
         else if(choice1==2)
         {
            lp.month_wise();
            //Prints All the Transactions Of The Year Month Wise
         }
         else
            break;
      }

   }

}
```

----

2. ACCOUNT.JAVA

This Class Contains Arrays Of Objects of Class Loan_Payment .This Class Contains methods like Add User Details, Payment Details, and Write method which is to write user details in the file

```
package Package;

public class Account
{
   Loan_Payment[] account = new Loan_Payment[50];
   Loan_Payment[] account_1 =new Loan_Payment[50];
   int n=0;//Keeping The Track Of Number Of Records
   int n1=0;//Keeping The Record Of Payment
   /*
   METHOD TO ADD USER DETAILS IN TXT FILE
    */
   void add()
   {
      account[n]=new Loan_Payment();
      System.out.println("Enter Detalis for Account "+(n+1));
      account[n++].scan();  //calling scan() function to scan details from
user
      System.out.println();

   }
   //METHOD TO ADD
   void add_Payment()
   {
      account_1[n1]=new Loan_Payment();
      System.out.println("Enter Payment Details for Account ");
      account_1[n1++].scan_Payment_Details();  //calling scan() function to
scan details from user
      System.out.println();
   }
   void write_Payment_Details()
   {
      for(int i=0;i<n1;i++)
      {
         account_1[i].write_Payment_Details();
      }
   }

   void display()
   {
      if(this.n == 0)
      {
         System.out.println("No Accounts Available !\n");
         return;
      }
      //loop to call display function in Person class through
Atm_Bank_Interface2 object
      for(int i=0;i<n;i++)
      {
         System.out.println("|| Account "+(i+1)+" Details ||");
         account[i].display(i+1);
         System.out.println();
         System.out.println("************************");
      }
      System.out.println();
   }


   void write_txt()
   {
      for(int i=0;i<n;i++)
      {
         account[i].write();
      }
   }

}
```

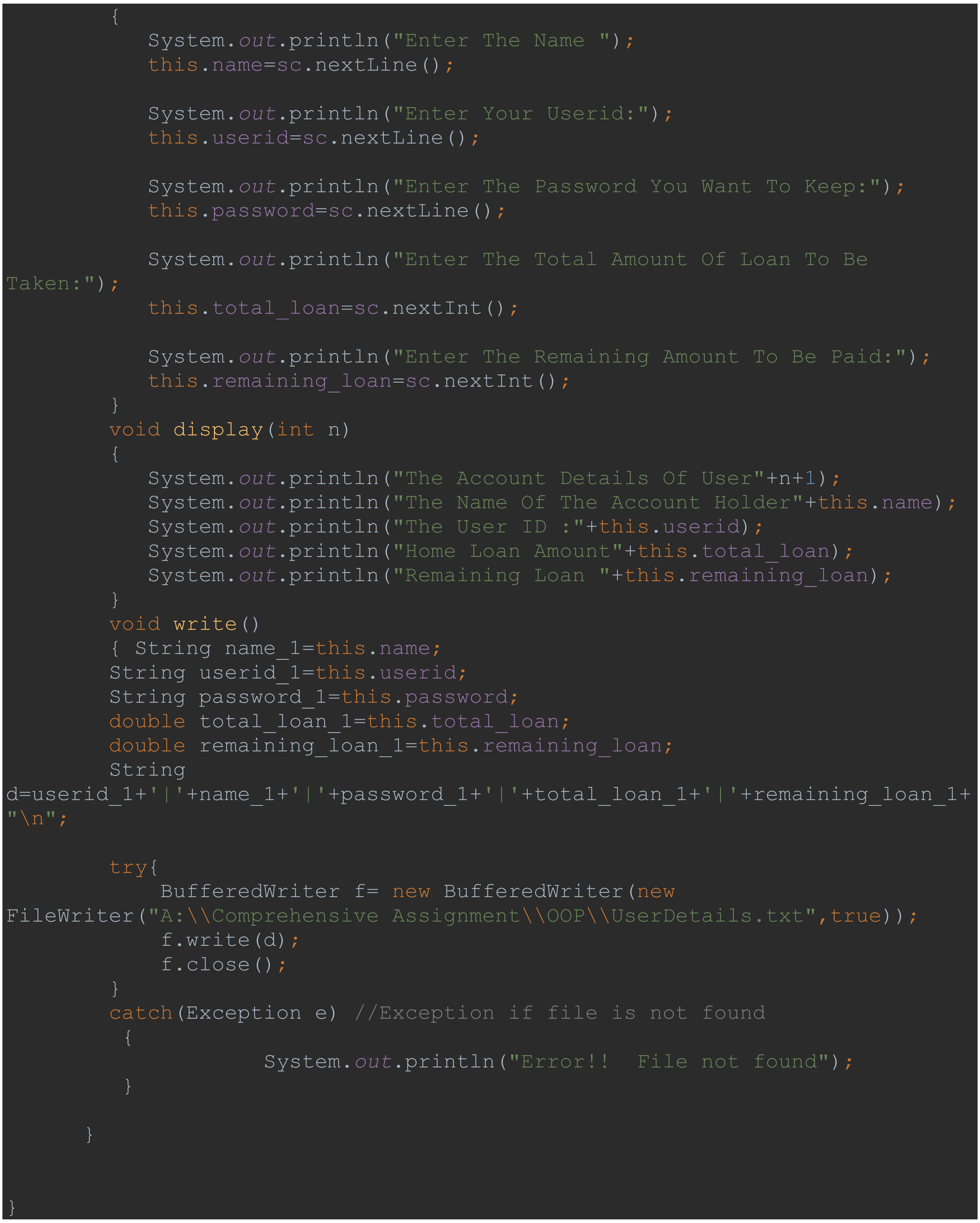
----

3. PERSON CLASS:

This Class Contains Scan Method And Write Method to take input from the user Write Contents in userdetails.txt file

CODE:

```
package Package;
import java.util.Scanner;
import java.io.*;
public class Person {
       Scanner sc = new Scanner(System.in);
    //Initializing variables required for storing Account Holder Details
        String userid;
        String name;
        String password;

        double total_loan;
        double remaining_loan;
        int n=0;//Keeping The Track Of Number Of Records
       int n1=0;//Keeping The Record Of Payment
        //CONSTRUCTOR TO INITIALIZE ALL THE VALUE TO ZERO
        Person()
        {
           this.userid="";
           this.name="";
           this.password="";
           this.total_loan=0;
           this.remaining_loan=0;
        }
        // SCANNING ALL THE DETAILS FROM THE USER
        void scan()
```



```
        {
           System.out.println("Enter The Name ");
           this.name=sc.nextLine();

           System.out.println("Enter Your Userid:");
           this.userid=sc.nextLine();

           System.out.println("Enter The Password You Want To Keep:");
           this.password=sc.nextLine();

           System.out.println("Enter The Total Amount Of Loan To Be
Taken:");
           this.total_loan=sc.nextInt();

           System.out.println("Enter The Remaining Amount To Be Paid:");
           this.remaining_loan=sc.nextInt();
        }
        void display(int n)
        {
           System.out.println("The Account Details Of User"+n+1);
           System.out.println("The Name Of The Account Holder"+this.name);
           System.out.println("The User ID :"+this.userid);
           System.out.println("Home Loan Amount"+this.total_loan);
           System.out.println("Remaining Loan "+this.remaining_loan);
        }
        void write()
        { String name_1=this.name;
        String userid_1=this.userid;
        String password_1=this.password;
        double total_loan_1=this.total_loan;
        double remaining_loan_1=this.remaining_loan;
        String
d=userid_1+'|'+name_1+'|'+password_1+'|'+total_loan_1+'|'+remaining_loan_1+
"\n";

        try{
            BufferedWriter f= new BufferedWriter(new
FileWriter("A:\\Comprehensive Assignment\\OOP\\UserDetails.txt",true));
            f.write(d);
            f.close();
        }
        catch(Exception e) //Exception if file is not found
         {
                    System.out.println("Error!!  File not found");
         }

      }


}
```

----

4. LOAN_PAYMENT.JAVA

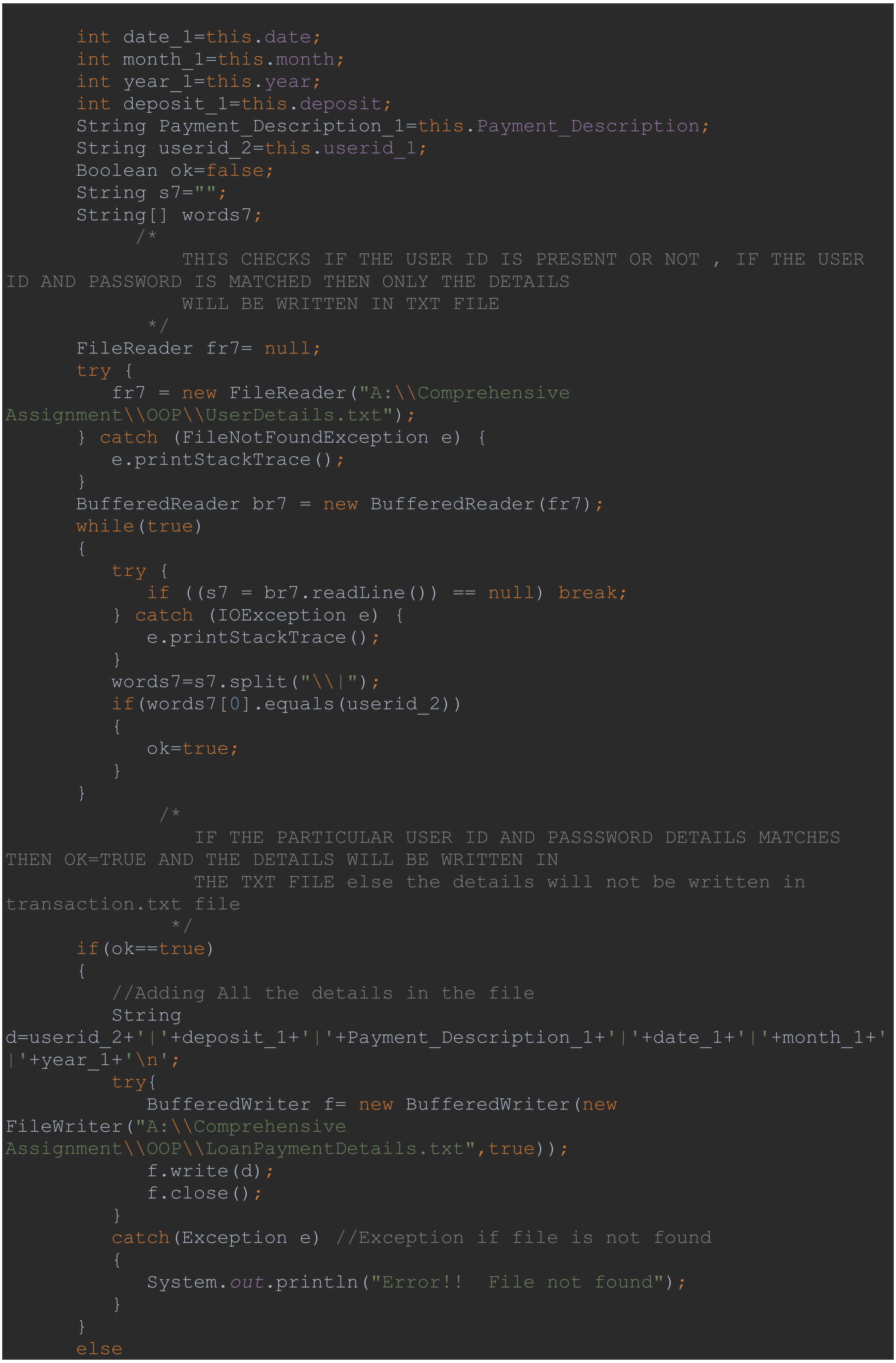
This Class Is A Sub Class Of Class Person .It has methods like Scan_payment_details which scans all the transactions after validating the userid and password. Write_payment_details writes all the transactions In The File Loan_Payment_Details.txt.

The Year wise method prints all the details of all the transactions made by a particular user in that year

The Month Wise Method prints all the details of the transactions made in all the months of a particular year entrered by the user.

CODE:

```
package Package;
import java.io.*;
import java.util.Arrays;
import java.util.Scanner;
public class Loan_Payment extends Person
{
   Scanner sca = new Scanner(System.in);
   int date;
   int month;
   int year;
   int deposit;
   String Payment_Description;
   String userid_1;
   //CONSTRUCTOR METHOD TO INITIALIZE ALL THE VALUES TO EITHER ZERO OR NULL
   void Load_Payment()
   {
      this.userid_1="";
      this.deposit=0;
      this.Payment_Description="";
      this.date=0;
      this.month=0;
      this.year=0;
   }
   //SCAN THE LOAN REPAYMENT DETAILS FROM THE USER
   void scan_Payment_Details()
   {
      System.out.println("Enter The User ID ");
      this.userid_1=sca.nextLine();

      System.out.println("Enter The Payment Description:");
      this.Payment_Description=sca.nextLine();

      System.out.println("Enter The Amount You Will Deposit");
      this.deposit=sca.nextInt();

      System.out.println("Enter The Date:");
      this.date=sca.nextInt();

      System.out.println("Enter The Month:");
      this.month=sca.nextInt();

      System.out.println("Enter The Year:");
      this.year=sca.nextInt();
   }
   /*
        This Method is used to Write The Loan Repayment Details In The FILE
LOAN PAYMENT DETAILS
    */
   void write_Payment_Details()
   {
```



```
      int date_1=this.date;
      int month_1=this.month;
      int year_1=this.year;
      int deposit_1=this.deposit;
      String Payment_Description_1=this.Payment_Description;
      String userid_2=this.userid_1;
      Boolean ok=false;
      String s7="";
      String[] words7;
           /*
               THIS CHECKS IF THE USER ID IS PRESENT OR NOT , IF THE USER
ID AND PASSWORD IS MATCHED THEN ONLY THE DETAILS
               WILL BE WRITTEN IN TXT FILE
            */
      FileReader fr7= null;
      try {
         fr7 = new FileReader("A:\\Comprehensive
Assignment\\OOP\\UserDetails.txt");
      } catch (FileNotFoundException e) {
         e.printStackTrace();
      }
      BufferedReader br7 = new BufferedReader(fr7);
      while(true)
      {
         try {
            if ((s7 = br7.readLine()) == null) break;
         } catch (IOException e) {
            e.printStackTrace();
         }
         words7=s7.split("\\|");
         if(words7[0].equals(userid_2))
         {
            ok=true;
         }
      }
             /*
                IF THE PARTICULAR USER ID AND PASSSWORD DETAILS MATCHES
THEN OK=TRUE AND THE DETAILS WILL BE WRITTEN IN
                THE TXT FILE else the details will not be written in
transaction.txt file
              */
      if(ok==true)
      {
         //Adding All the details in the file
         String
d=userid_2+'|'+deposit_1+'|'+Payment_Description_1+'|'+date_1+'|'+month_1+'
|'+year_1+'\n';
         try{
            BufferedWriter f= new BufferedWriter(new
FileWriter("A:\\Comprehensive
Assignment\\OOP\\LoanPaymentDetails.txt",true));
            f.write(d);
            f.close();
         }
         catch(Exception e) //Exception if file is not found
         {
            System.out.println("Error!!  File not found");
         }
      }
      else
      {
         System.out.println("No Data Exists For Such Userid");
      }


   }
   /*
          THIS METHOD PRINTS ALL THE USERS DATA THAT HAVE DEPOSITED MONEY
IN THAT PARTICULAR YEAR
    */
   public void Year_wise() throws IOException
   {
      Scanner sca = new Scanner(System.in);
      System.out.println("Enter The Year For Which You Want To See
Transaction:");
      String year_r = sca.next();
      /*
          FOR PRINTING ALL THE USER DATA ACCORDING TO THAT DATA STORE IN
THE FILE USER.TXT
       */
      /*
         FOR FINDING ALL THE NUMBER OF USERS WE WILL ITERATE THROUGH
USERDETAILS.TXT FILE AND
         ITERATE OVER ALL THE USER AND FOR EVERY USER PRINT ALL THE DETAILS
YEAR WISE
         FOR THIS PURPOSE WE HAVE TO ITERATE THROUGH  TWO FILES OUTER FILE
USERDETAILS AND INNER FILE FOR TRANSACTIONDETAILS
         WE WILL USE SPLIT STRING METHOD TO GET USERID AND TRANSACTION
DETAILS
       */
      FileReader fr1=new FileReader("A:\\Comprehensive
Assignment\\OOP\\UserDetails.txt");/*openingThe File User Details.txt*/
      String s1,s2,s3;
      String[] words1;//Array of strings to split the string
      String s;
      String[] words;
      BufferedReader br1 = new BufferedReader(fr1);

      while((s1=br1.readLine()) != null)
      {
         words1=s1.split("\\|");
         s2=words1[3];//total loan
         s3=words1[4];//remaining amount
         FileReader fr=new FileReader("A:\\Comprehensive
Assignment\\OOP\\LoanPaymentDetails.txt");
         /* Opening the Loan Payment Details file to print all the
transaction of a
          current particular person from user details.txt*/
         BufferedReader br = new BufferedReader(fr);
         while ((s= br.readLine())!=null) {
            words = s.split("\\|");

            if (words[0].equals(words1[0])) {
               for (String word : words) {
                  if (word.equals(year_r)) {
                     System.out.println("Year: " + words[5]);
                     System.out.println("Name: " + words1[1]);
                     System.out.println("Amount Deposited: " + words[1]);
                     System.out.println("TOTAL LOAN:"+s2);
                     System.out.println("Previous Remaining Amount"+s3);
                     int amount=Integer.parseInt(s3)-
Integer.parseInt(words[1]);
                     /* Integer.parseInt Converts the String Into
Integers*/
                     System.out.println("CURRENT REMAINING LOAN
PAYMENT"+amount);
                     System.out.println(Arrays.toString(words));
                  }
               }
            }
         }
      }


   }
   /*
       THIS METHOD PRINTS ALL THE AMOUNT COLLECTED IN THE PARTICULAR YEAR
MONTH WISE
    */
   public void month_wise() throws IOException
   {

      System.out.println("Enter The Year For Which You Want To See All The
Months Transaction:");
      String year_r = sca.next();
      //TAKING THE INPUT FROM THE USER FOR WHICH YEAR'S DATA TO BE PRINTED
ON CONSOLE
      FileReader fr=new FileReader("A:\\Comprehensive
Assignment\\OOP\\LoanPaymentDetails.txt");
      String s;
      int[] arr=new int [13];
      for(int i=0;i<13;i++)
      {
         arr[i]=0;
      }//INITIALISING THE ARRAY AS ZERO
      String[] words;
      /*
       ITERATE THROUGH TRANSACTIONDETAILS.TXT FILE AND KEEP THE TRACK OF
PARTICULAR MONTH AND YEAR AND
       ADD THEM TO GET ALL THE NECESSARY DETAILS
       */
      BufferedReader br = new BufferedReader(fr);
      while ((s= br.readLine())!=null)
      {
         words=s.split("\\|");
         for (String word: words)
         {
            if (word.equals(year_r))
            {
               //System.out.println(Arrays.toString(words));
               int k=Integer.parseInt(words[1]);
               int index=Integer.parseInt(words[4]);
               System.out.println(index+" "+k);
               arr[index]+=k;
            }
         }
      }
      //PRINTING THE AMOUNT DEPOSITED YEAR WISE
      System.out.println("Now Priting The Amount Deposited Year :"+year_r);
      int sum=0;
      System.out.println("Collection For January
Month:"+arr[1]);sum+=arr[1];
      System.out.println("Collection For February
Month:"+arr[2]);sum+=arr[2];
      System.out.println("Collection For March Month:"+arr[3]);sum+=arr[3];
      System.out.println("Collection For April Month:"+arr[4]);sum+=arr[4];
      System.out.println("Collection For May Month:"+arr[5]);sum+=arr[5];
      System.out.println("Collection For June Month:"+arr[6]);sum+=arr[6];
      System.out.println("Collection For July Month:"+arr[7]);sum+=arr[7];
      System.out.println("Collection For August
Month:"+arr[8]);sum+=arr[8];
      System.out.println("Collection For September
Month:"+arr[9]);sum+=arr[9];
      System.out.println("Collection For October
Month:"+arr[10]);sum+=arr[10];
      System.out.println("Collection For November
Month:"+arr[11]);sum+=arr[11];
      System.out.println("Collection For December
Month:"+arr[12]);sum+=arr[12];

      System.out.println("Total Deposition Of Money In The Year
"+year_r+":"+sum);
   }


}
```

5.User_Details.txt:All the Data Of a particular user like username,id,password,total loan is printed in this file seprated by pipe symbol.

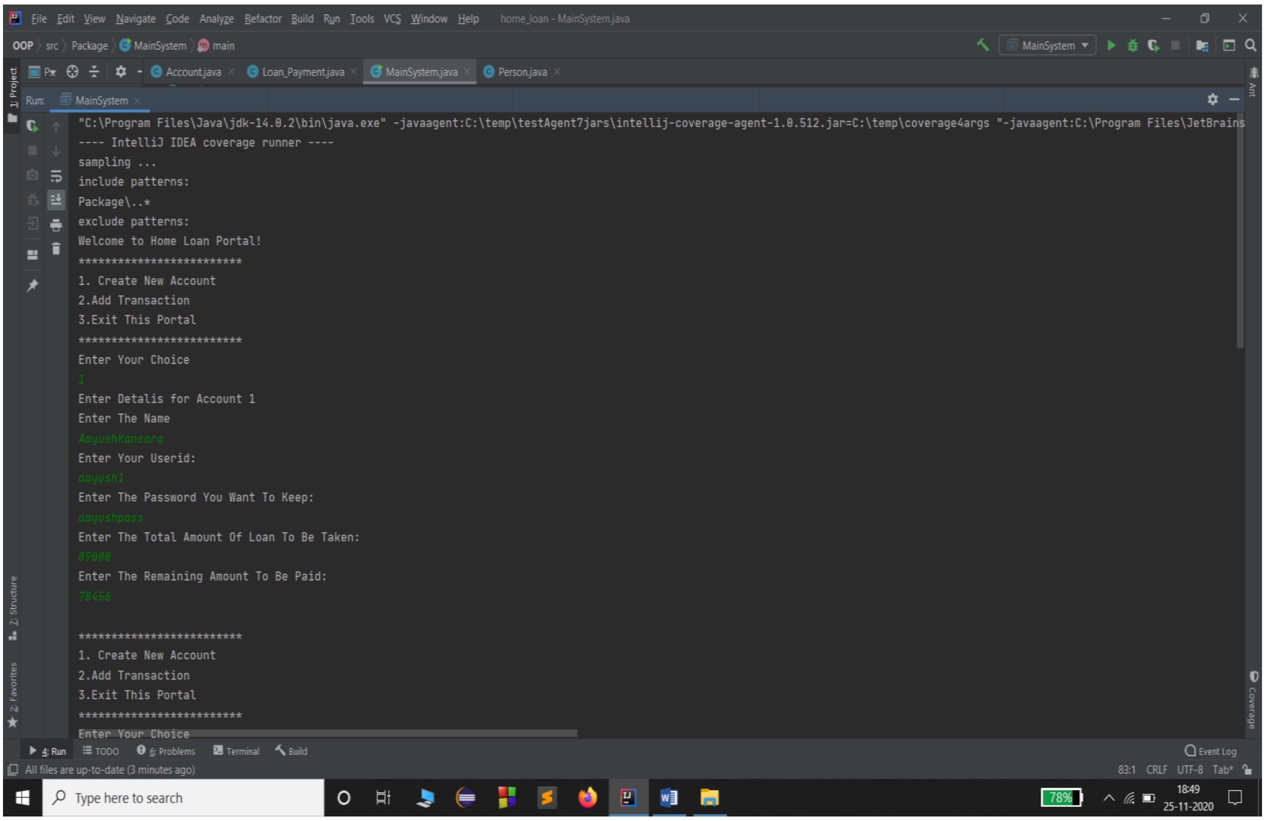
aayush1|AayushKansara|aayushpass|89000.0|78456.0
shivam2|ShivamPatel|shivampass|87654.0|78000.0
aarav3|AaravSharma|aaravpass|100500.0|90000.0
sneha|SnehaGupta|snehapassword|25000.0|21364.0
dipen18|Dipenpatel|dipenpassword|65000.0|49000.0
In This Project All the main concepts of java like Inheritance, File Handling, Exception Handling, has been implemented Successfully.

6.Transactions_Details.txt:All the transactions made is displayed in this file
aayush1|12000|April Payment 2020|6|4|2020
aayush1|23150|May Payment 2019|6|5|2019
shivam2|8540|April Payment 2020|4|4|2020
shivam2|8950|JUly Payment 2020|2|7|2020
aarav3|5120|December Payment 2020|12|12|2020
sneha|2310|October Payment 2020|12|10|2020
sneha|5641|December Payment 2019|2|12|2019
dipen18|1230|January Payment 2019|12|1|2020
dipen18|6541|March Payment 2020|3|3|2020

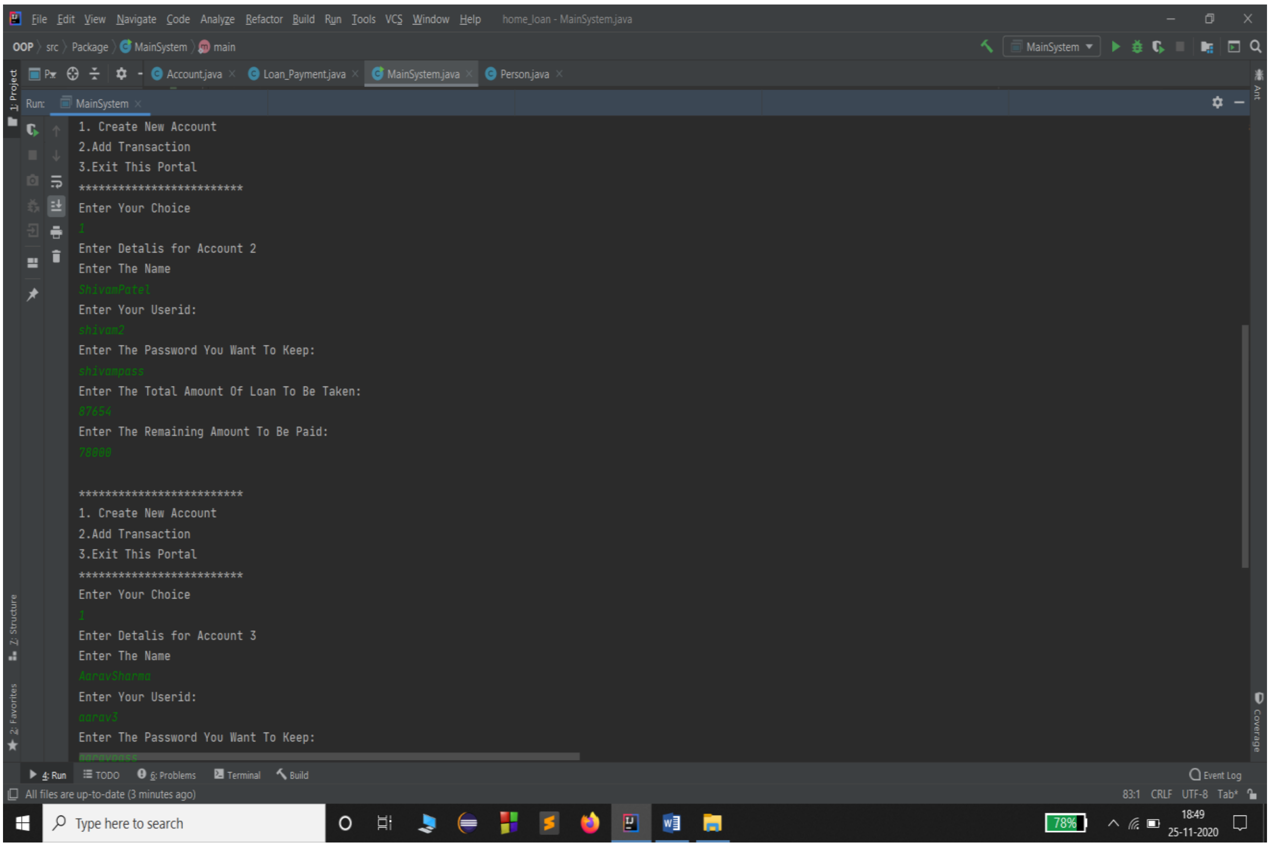
```
--------------------------------END OF CODE----------------------------
```

All the Important Concepts Of OOP like inheritance ,exception handling ,inheritance ,file handling has been implemented successfully

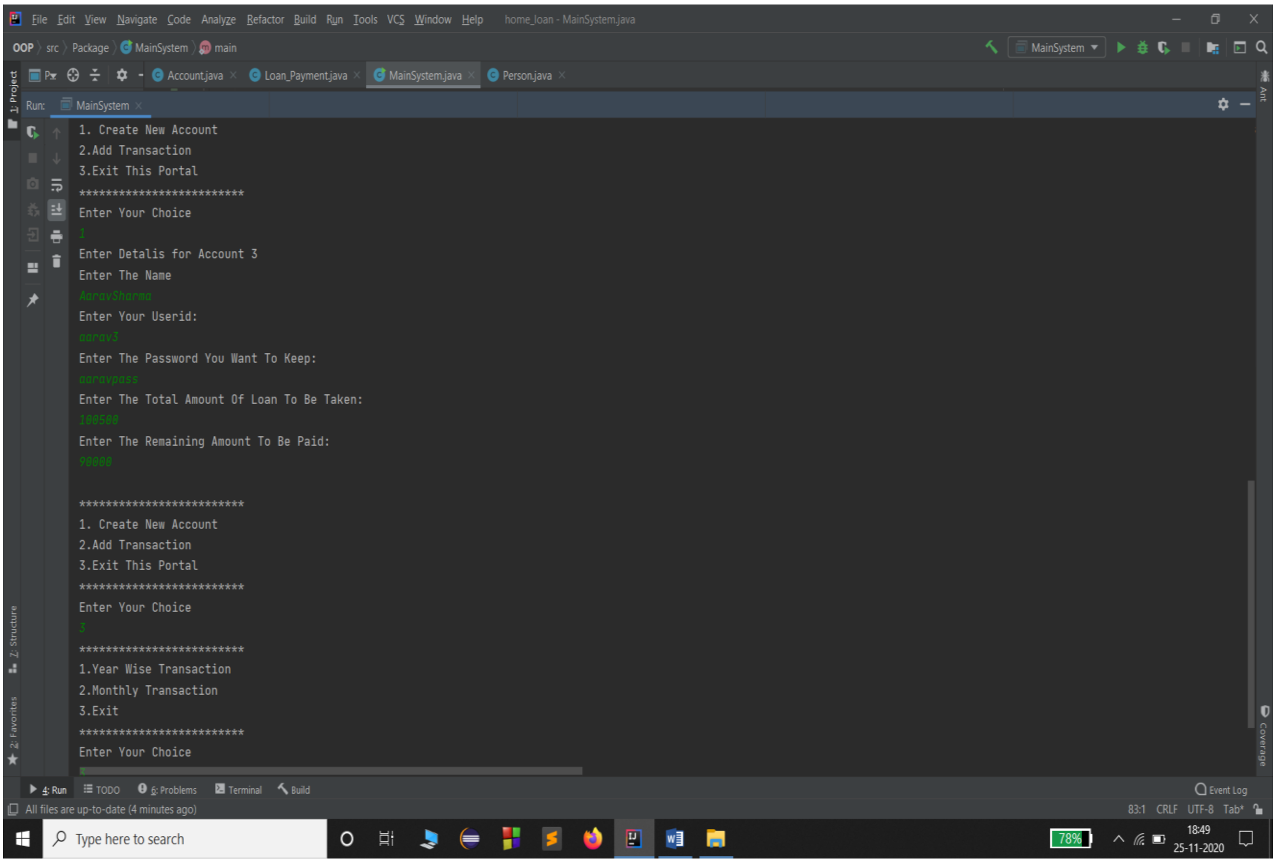
SCREENSHOTS:


File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help home_loan - MainSystem.java
OOP src Package MainSystem main
Account.java Loan_Payment.java MainSystem.java Person.java
Run: MainSystem
4: Run TODO 6: Problems Terminal Build Event Log
All files are up-to-date (3 minutes ago)
83:1 CRLF UTF-8 Tab*
Type here to search
78%
18:49 25-11-2020

```
"C:\Program Files\Java\jdk-14.0.2\bin\java.exe" -javaagent:C:\temp\testAgent7jars\intellij-coverage-agent-1.0.512.jar=C:\temp\coverage4args "-javaagent:C:\Program Files\JetBrains
---- IntelliJ IDEA coverage runner ----
sampling ...
include patterns:
Package\..*
exclude patterns:
Welcome to Home Loan Portal!
************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
************************
Enter Your Choice
1
Enter Detalis for Account 1
Enter The Name
AayushKansara
Enter Your Userid:
aayush1
Enter The Password You Want To Keep:
aayushpass
Enter The Total Amount Of Loan To Be Taken:
89000
Enter The Remaining Amount To Be Paid:
78456

************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
************************
Enter Your Choice
```

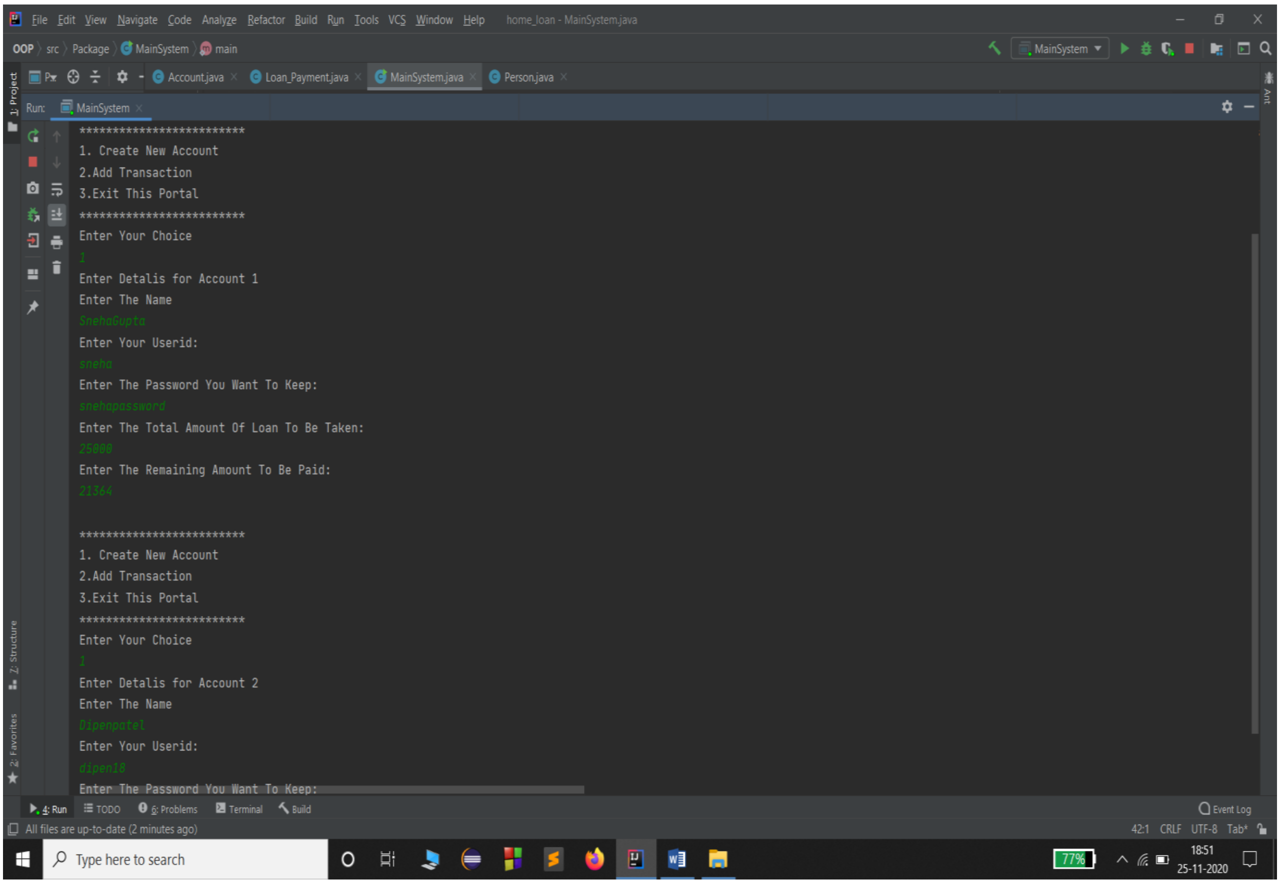

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help home_loan - MainSystem.java
OOP src Package MainSystem main
Account.java Loan_Payment.java MainSystem.java Person.java
Run: MainSystem
4: Run TODO 6: Problems Terminal Build Event Log
All files are up-to-date (3 minutes ago)
83:1 CRLF UTF-8 Tab*
Type here to search
78%
18:49 25-11-2020

```
1. Create New Account
2.Add Transaction
3.Exit This Portal
************************
Enter Your Choice
1
Enter Detalis for Account 2
Enter The Name
ShivamPatel
Enter Your Userid:
shivam2
Enter The Password You Want To Keep:
shivampass
Enter The Total Amount Of Loan To Be Taken:
87654
Enter The Remaining Amount To Be Paid:
78000

************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
************************
Enter Your Choice
1
Enter Detalis for Account 3
Enter The Name
AaravSharma
Enter Your Userid:
aarav3
Enter The Password You Want To Keep:
aaravpass
```



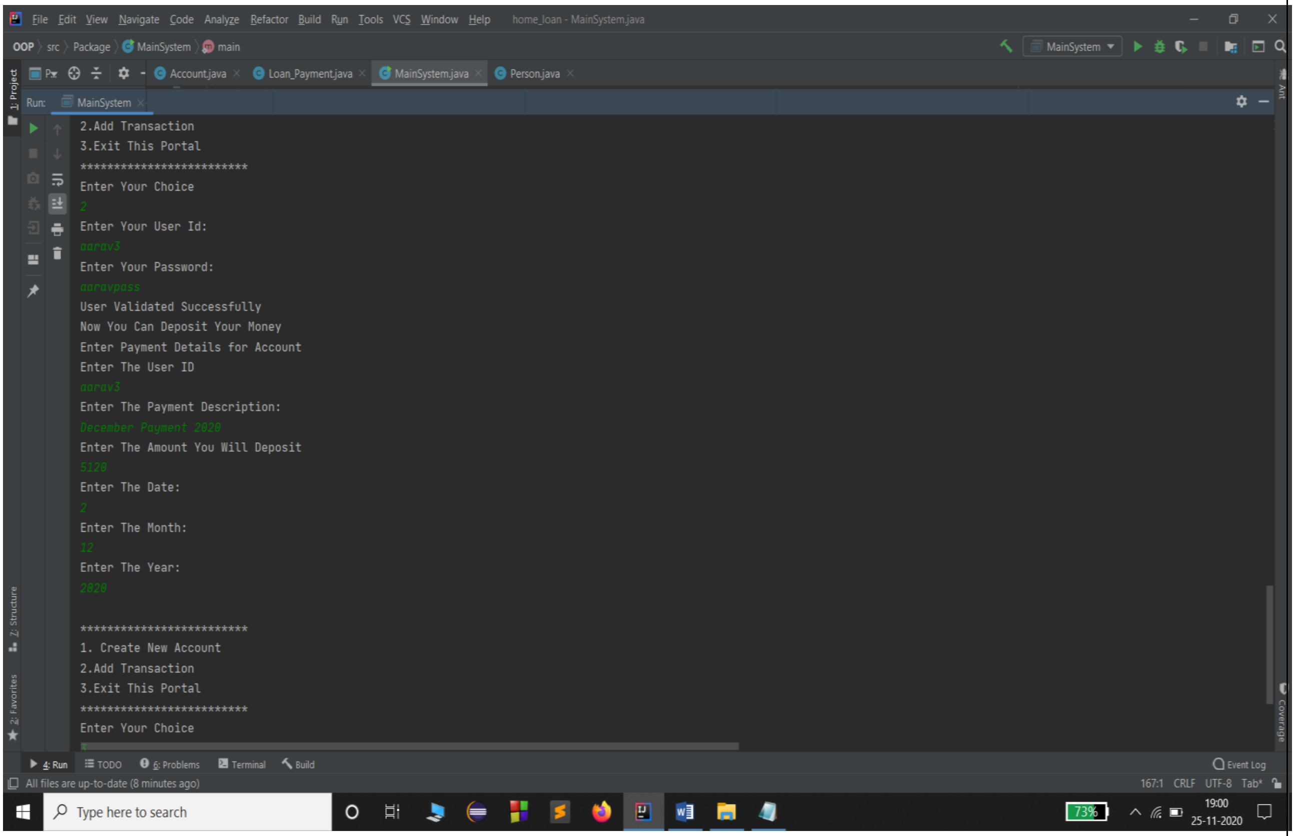
```
1. Create New Account
2.Add Transaction
3.Exit This Portal
*************************
Enter Your Choice
1
Enter Detalis for Account 3
Enter The Name
AaravSharma
Enter Your Userid:
aarav3
Enter The Password You Want To Keep:
aaravpass
Enter The Total Amount Of Loan To Be Taken:
100500
Enter The Remaining Amount To Be Paid:
90000

*************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
*************************
Enter Your Choice
3
*************************
1.Year Wise Transaction
2.Monthly Transaction
3.Exit
*************************
Enter Your Choice
```

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
home_loan - MainSystem.java
OOP src Package MainSystem main
Account.java
Loan_Payment.java
MainSystem.java
Person.java
Run: MainSystem
4: Run
TODO
6: Problems
Terminal
Build
Event Log
All files are up-to-date (4 minutes ago)
83:1 CRLF UTF-8 Tab*
Type here to search
78%
18:49
25-11-2020

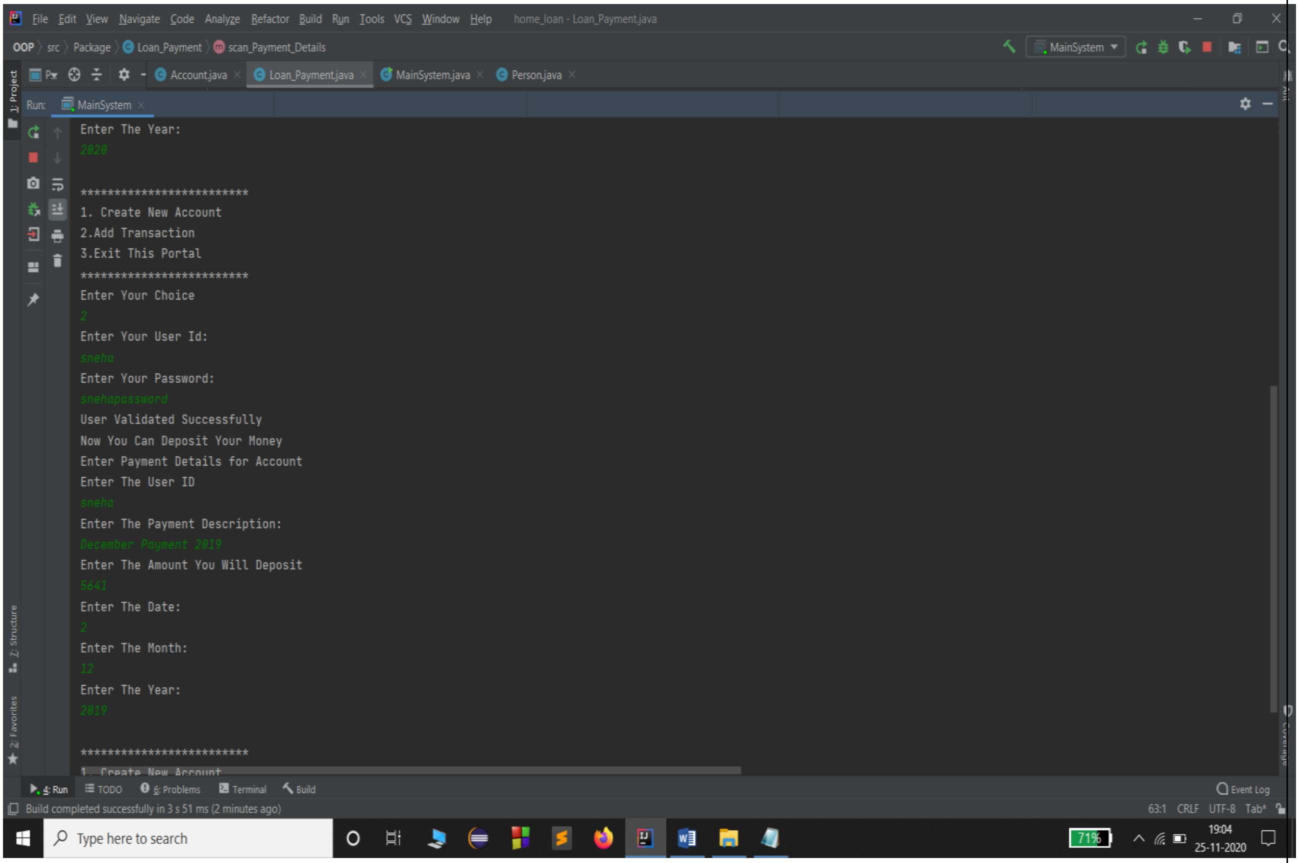


```
*************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
*************************
Enter Your Choice
1
Enter Detalis for Account 1
Enter The Name
SnehaGupta
Enter Your Userid:
sneha
Enter The Password You Want To Keep:
snehapassword
Enter The Total Amount Of Loan To Be Taken:
25000
Enter The Remaining Amount To Be Paid:
21364

*************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
*************************
Enter Your Choice
1
Enter Detalis for Account 2
Enter The Name
Dipenpatel
Enter Your Userid:
dipen18
Enter The Password You Want To Keep:
```

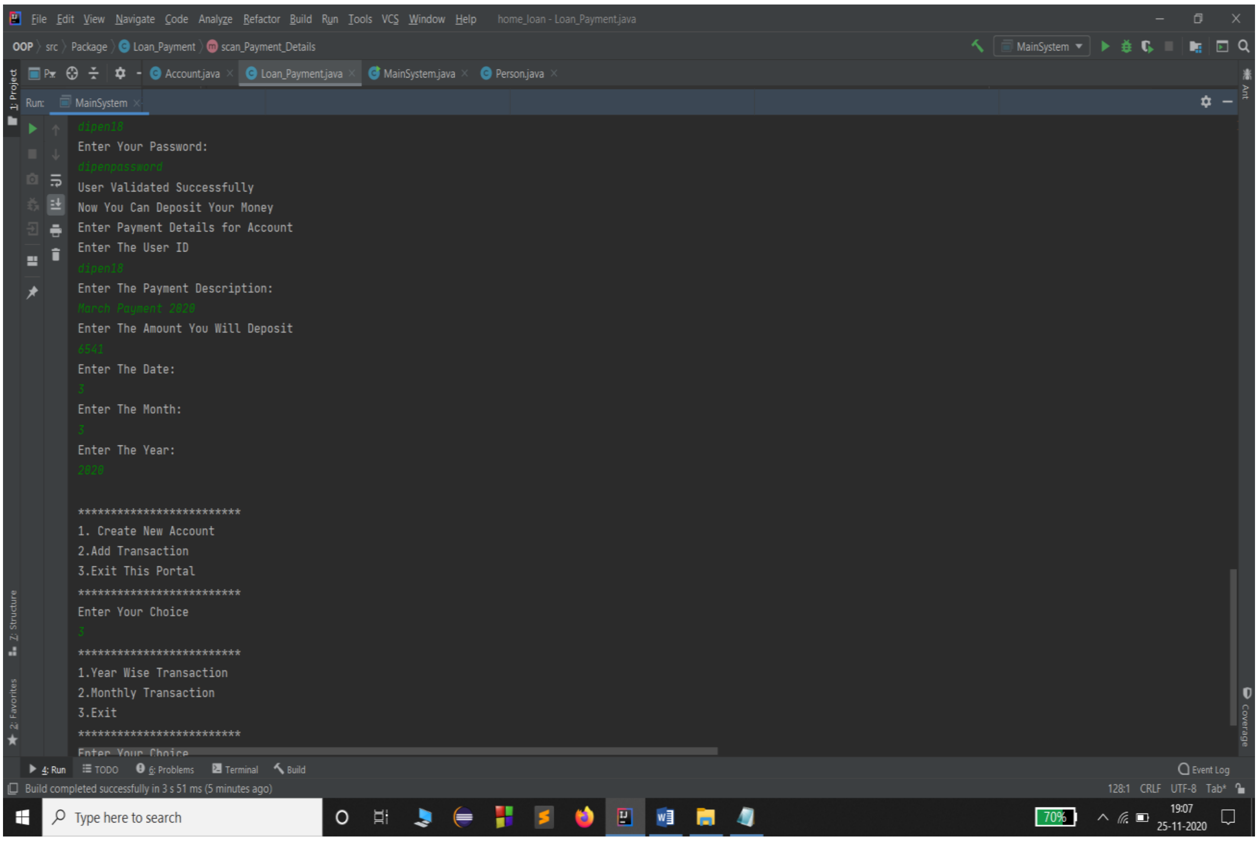
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
home_loan - MainSystem.java
OOP src Package MainSystem main
Account.java
Loan_Payment.java
MainSystem.java
Person.java
Run: MainSystem
4: Run
TODO
6: Problems
Terminal
Build
Event Log
All files are up-to-date (2 minutes ago)
42:1 CRLF UTF-8 Tab*
Type here to search
77%
18:51
25-11-2020


File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
home_loan - MainSystem.java
OOP › src › Package › MainSystem › main
Account.java
Loan_Payment.java
MainSystem.java
Person.java
Run: MainSystem
4: Run
TODO
6: Problems
Terminal
Build
Event Log
All files are up-to-date (8 minutes ago)
167:1 CRLF UTF-8 Tab*
Type here to search
73%
19:00
25-11-2020

```
2.Add Transaction
3.Exit This Portal
************************
Enter Your Choice
2
Enter Your User Id:
aarav3
Enter Your Password:
aaravpass
User Validated Successfully
Now You Can Deposit Your Money
Enter Payment Details for Account
Enter The User ID
aarav3
Enter The Payment Description:
December Payment 2020
Enter The Amount You Will Deposit
5120
Enter The Date:
2
Enter The Month:
12
Enter The Year:
2020

************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
************************
Enter Your Choice
```

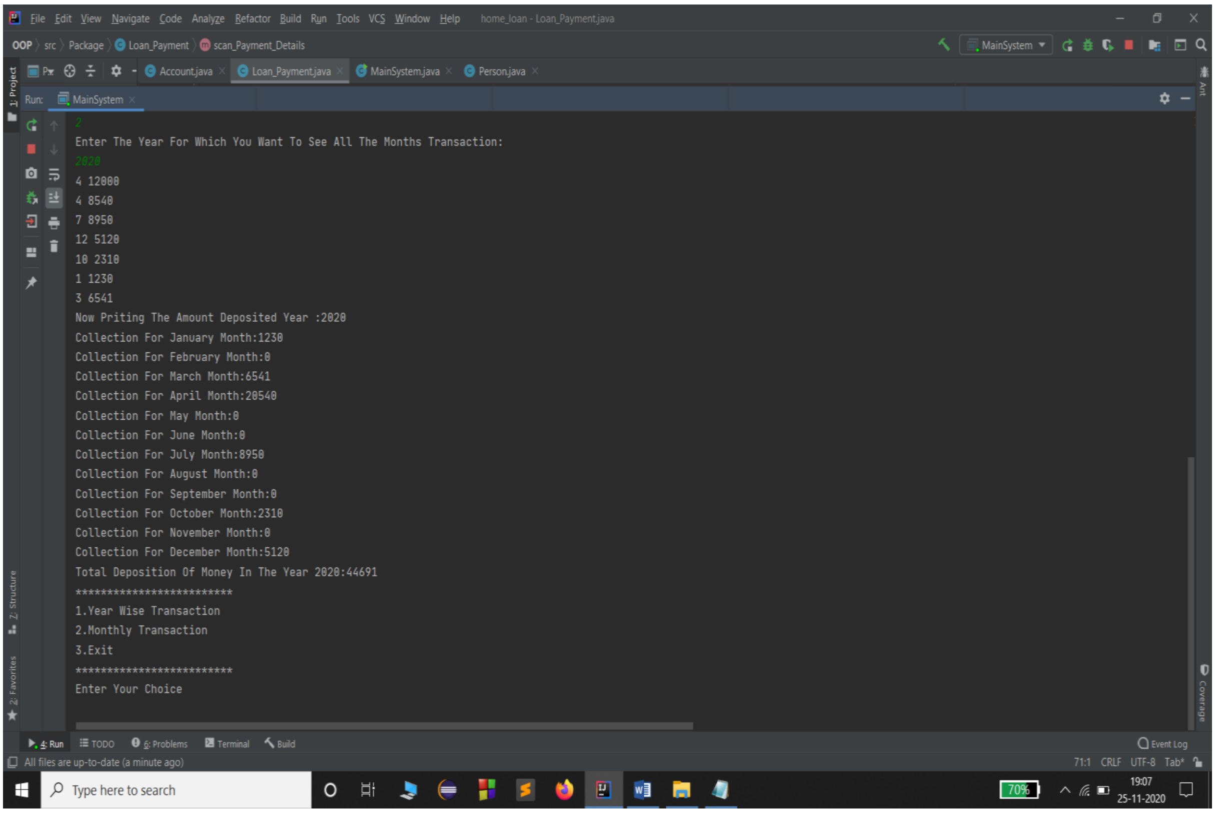

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
home_loan - Loan_Payment.java
OOP › src › Package › Loan_Payment › scan_Payment_Details
Account.java
Loan_Payment.java
MainSystem.java
Person.java
Run: MainSystem
4: Run
TODO
6: Problems
Terminal
Build
Event Log
Build completed successfully in 3 s 51 ms (2 minutes ago)
63:1 CRLF UTF-8 Tab*
Type here to search
71%
19:04
25-11-2020

```
Enter The Year:
2020

************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
************************
Enter Your Choice
2
Enter Your User Id:
sneha
Enter Your Password:
snehapassword
User Validated Successfully
Now You Can Deposit Your Money
Enter Payment Details for Account
Enter The User ID
sneha
Enter The Payment Description:
December Payment 2019
Enter The Amount You Will Deposit
5641
Enter The Date:
2
Enter The Month:
12
Enter The Year:
2019

************************
1. Create New Account
```



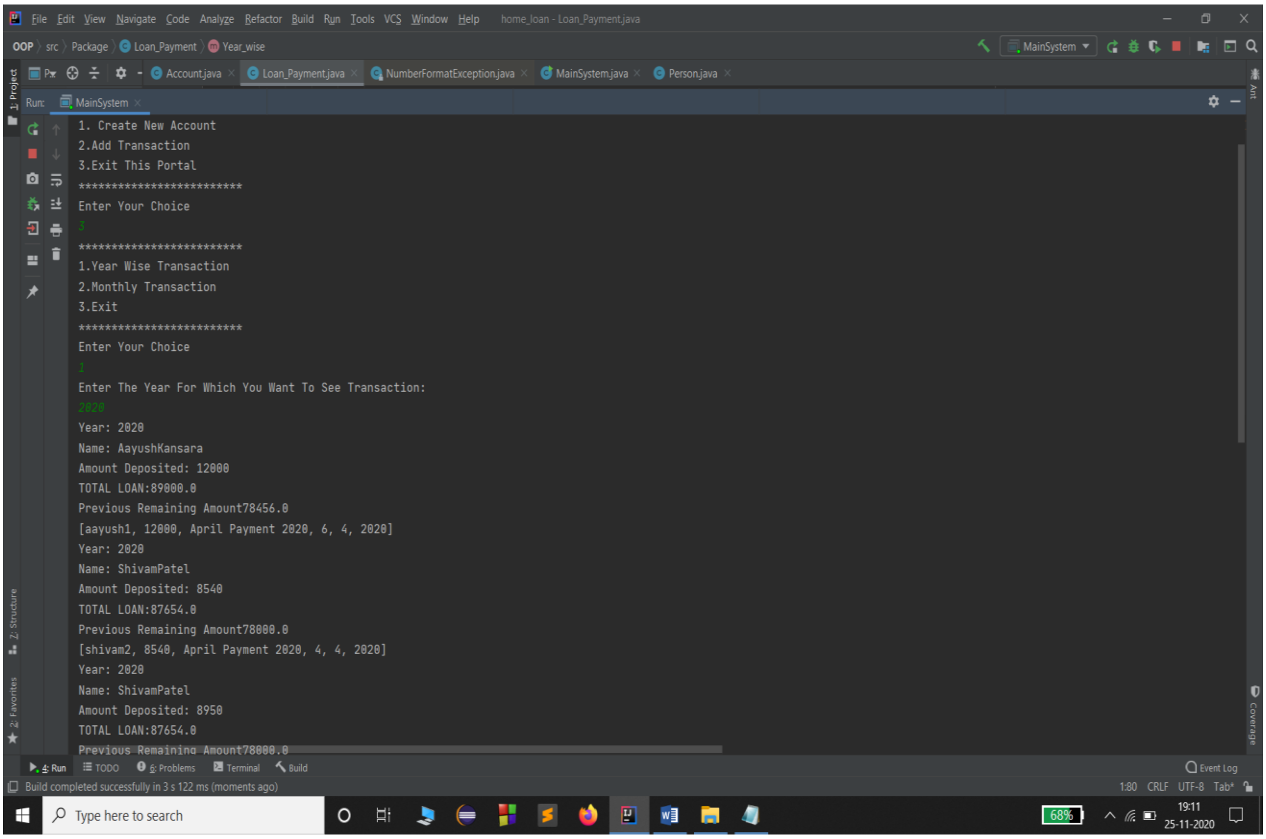
```
dipen18
Enter Your Password:
dipenpassword
User Validated Successfully
Now You Can Deposit Your Money
Enter Payment Details for Account
Enter The User ID
dipen18
Enter The Payment Description:
March Payment 2020
Enter The Amount You Will Deposit
6541
Enter The Date:
3
Enter The Month:
3
Enter The Year:
2020

************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
************************
Enter Your Choice
3
************************
1.Year Wise Transaction
2.Monthly Transaction
3.Exit
************************
Enter Your Choice
```

Build completed successfully in 3 s 51 ms (5 minutes ago)



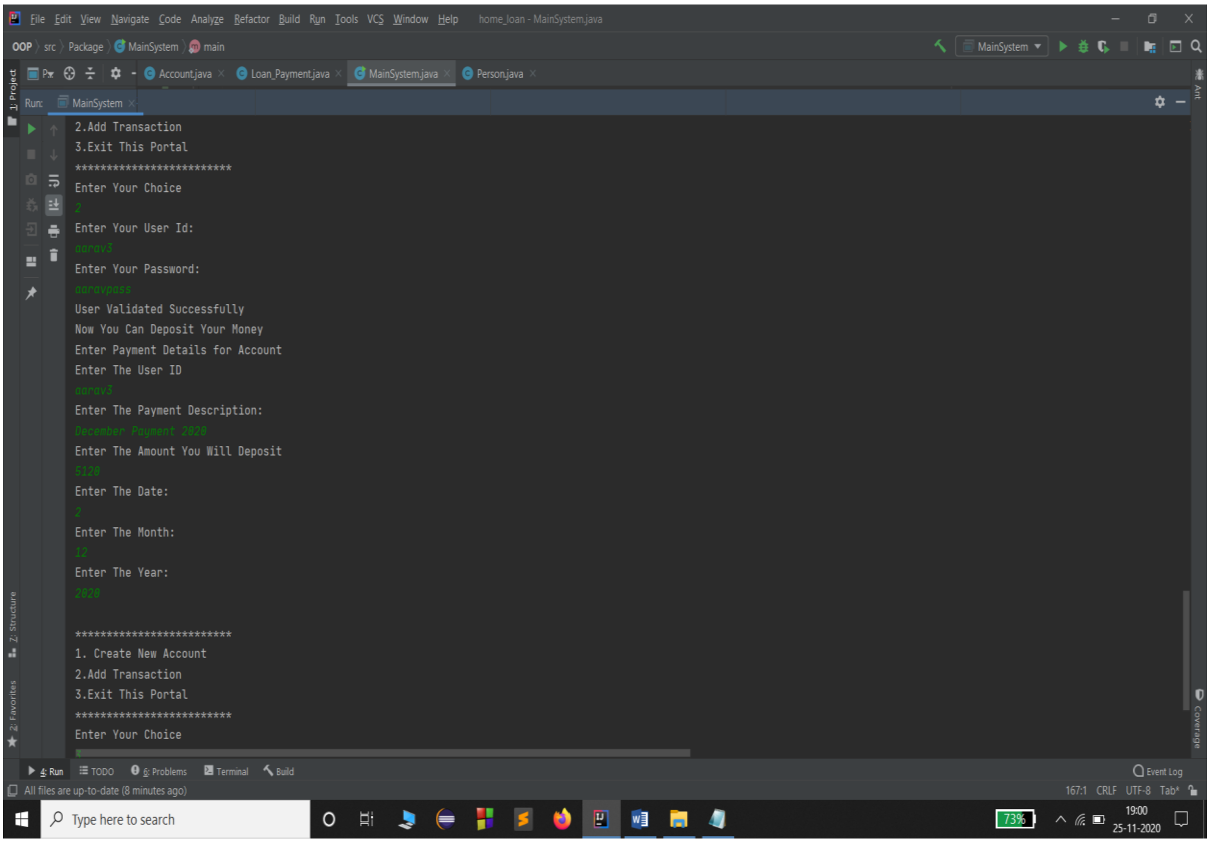
```
2
Enter The Year For Which You Want To See All The Months Transaction:
2020
4 12000
4 8540
7 8950
12 5120
10 2310
1 1230
3 6541
Now Priting The Amount Deposited Year :2020
Collection For January Month:1230
Collection For February Month:0
Collection For March Month:6541
Collection For April Month:20540
Collection For May Month:0
Collection For June Month:0
Collection For July Month:8950
Collection For August Month:0
Collection For September Month:0
Collection For October Month:2310
Collection For November Month:0
Collection For December Month:5120
Total Deposition Of Money In The Year 2020:44691
************************
1.Year Wise Transaction
2.Monthly Transaction
3.Exit
************************
Enter Your Choice
```

All files are up-to-date (a minute ago)



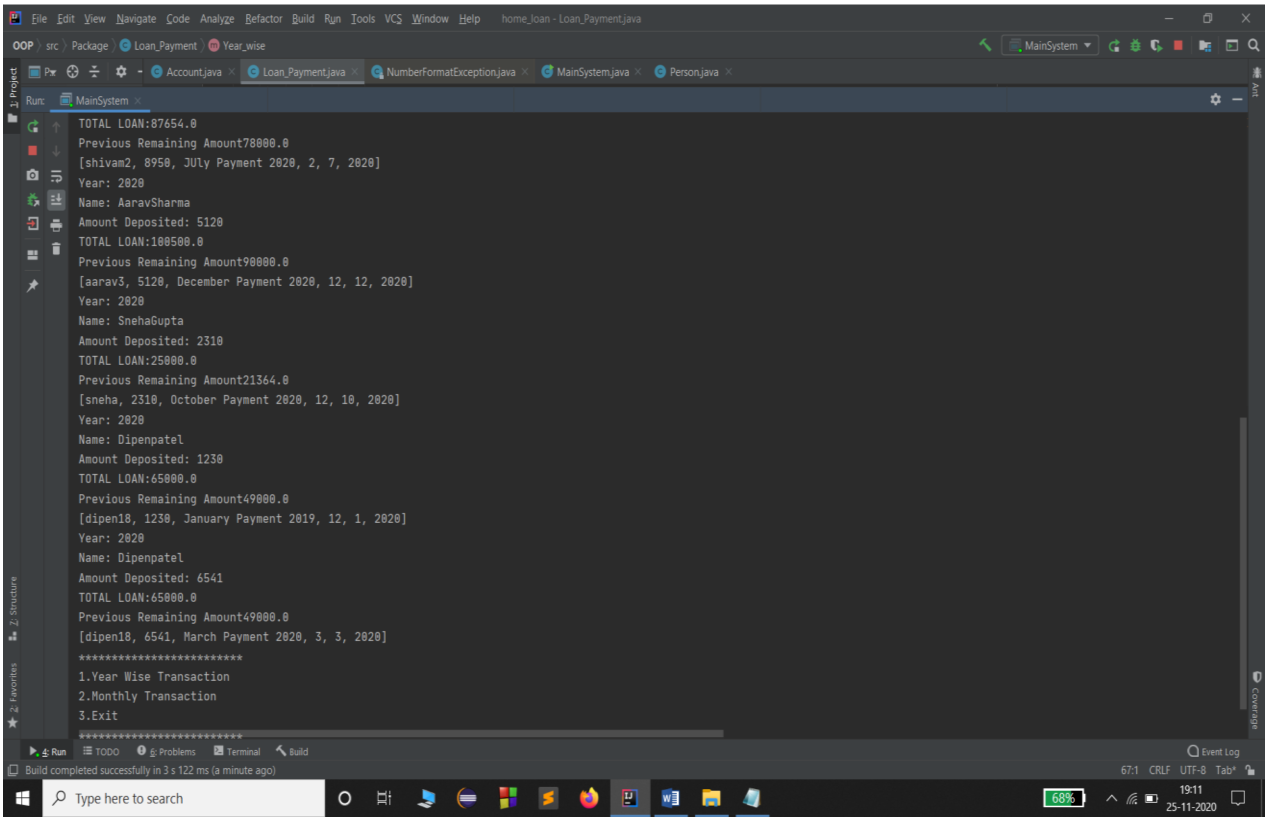
```
1. Create New Account
2.Add Transaction
3.Exit This Portal
*************************
Enter Your Choice
3
*************************
1.Year Wise Transaction
2.Monthly Transaction
3.Exit
*************************
Enter Your Choice
1
Enter The Year For Which You Want To See Transaction:
2020
Year: 2020
Name: AayushKansara
Amount Deposited: 12000
TOTAL LOAN:89000.0
Previous Remaining Amount78456.0
[aayush1, 12000, April Payment 2020, 6, 4, 2020]
Year: 2020
Name: ShivamPatel
Amount Deposited: 8540
TOTAL LOAN:87654.0
Previous Remaining Amount78000.0
[shivam2, 8540, April Payment 2020, 4, 4, 2020]
Year: 2020
Name: ShivamPatel
Amount Deposited: 8950
TOTAL LOAN:87654.0
Previous Remaining Amount78000.0
```

Build completed successfully in 3 s 122 ms (moments ago)



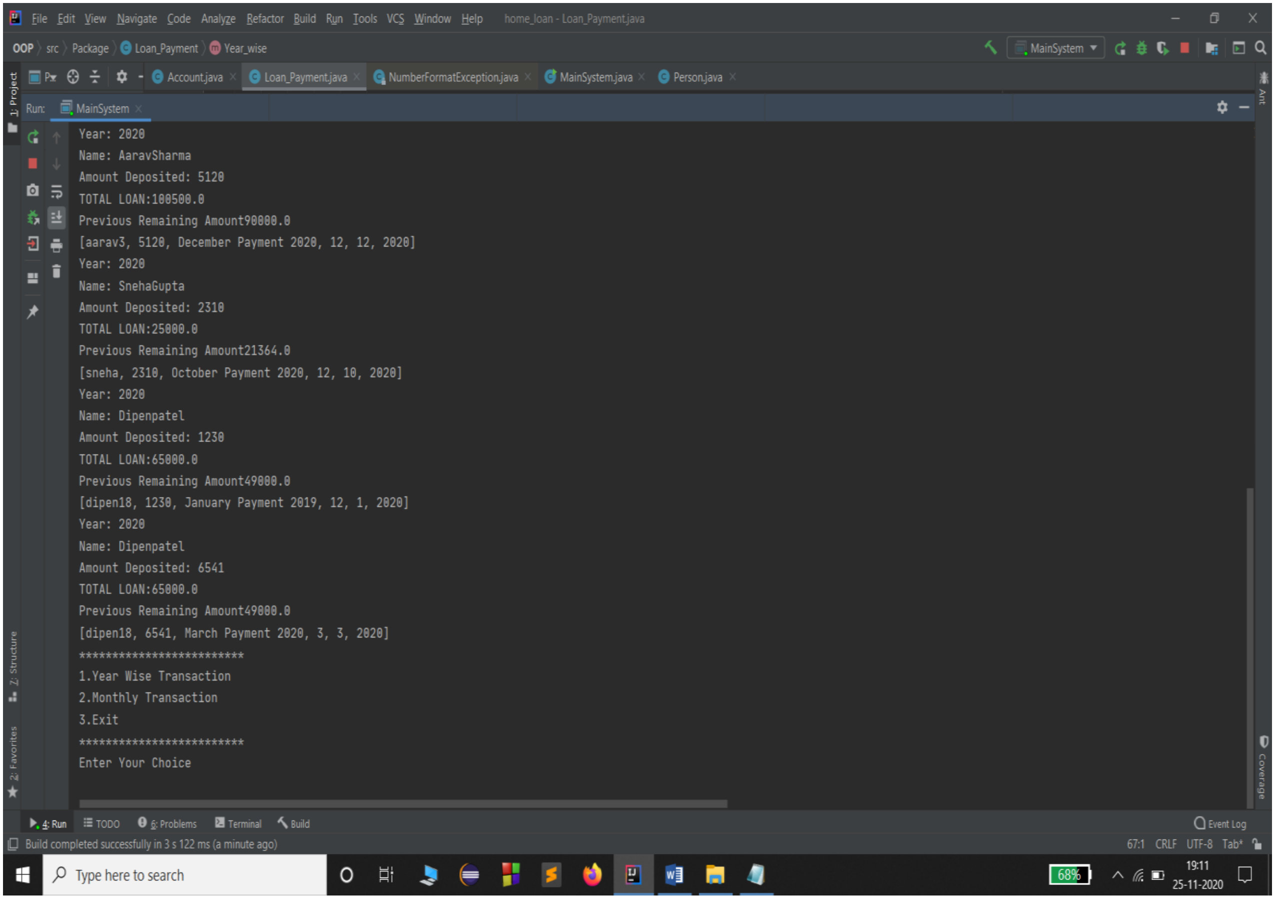
```
2.Add Transaction
3.Exit This Portal
*************************
Enter Your Choice
2
Enter Your User Id:
aarav3
Enter Your Password:
aaravpass
User Validated Successfully
Now You Can Deposit Your Money
Enter Payment Details for Account
Enter The User ID
aarav3
Enter The Payment Description:
December Payment 2020
Enter The Amount You Will Deposit
5120
Enter The Date:
2
Enter The Month:
12
Enter The Year:
2020

*************************
1. Create New Account
2.Add Transaction
3.Exit This Portal
*************************
Enter Your Choice
```

All files are up-to-date (8 minutes ago)



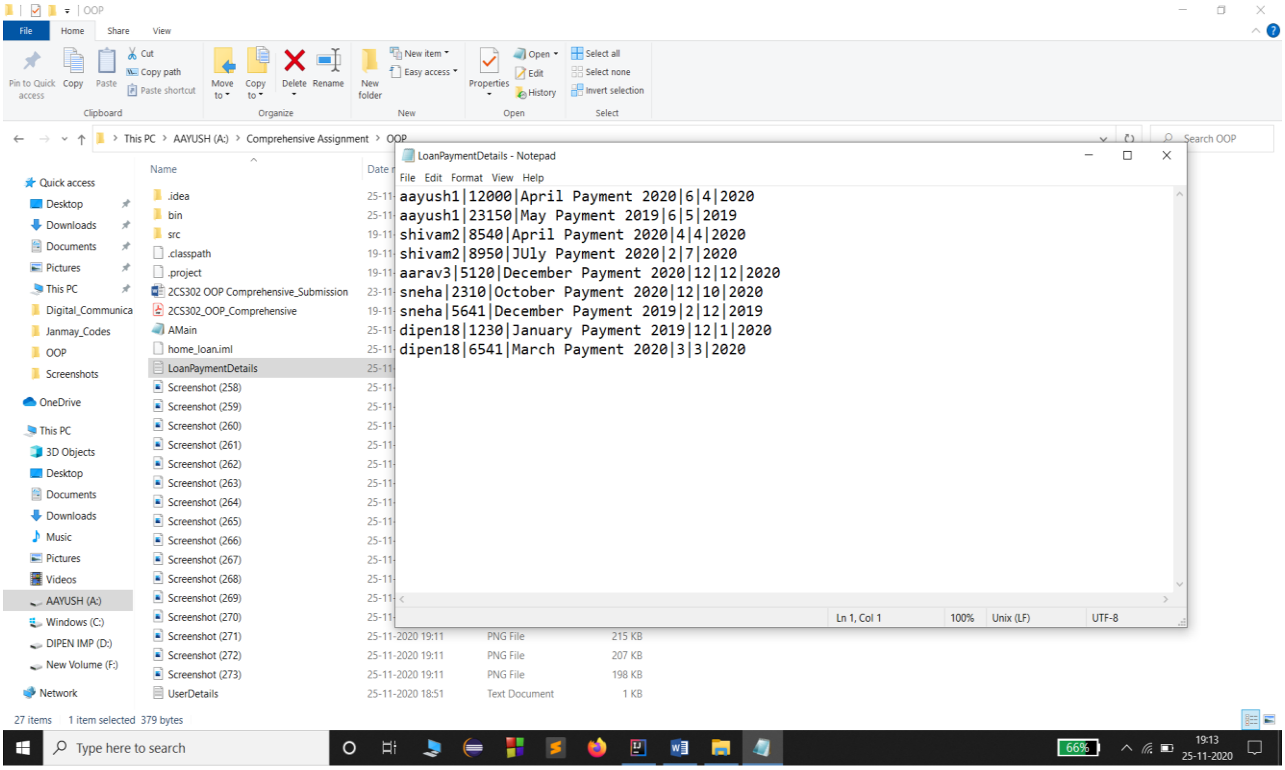
```
TOTAL LOAN:87654.0
Previous Remaining Amount78000.0
[shivam2, 8950, JUly Payment 2020, 2, 7, 2020]
Year: 2020
Name: AaravSharma
Amount Deposited: 5120
TOTAL LOAN:100500.0
Previous Remaining Amount90000.0
[aarav3, 5120, December Payment 2020, 12, 12, 2020]
Year: 2020
Name: SnehaGupta
Amount Deposited: 2310
TOTAL LOAN:25000.0
Previous Remaining Amount21364.0
[sneha, 2310, October Payment 2020, 12, 10, 2020]
Year: 2020
Name: Dipenpatel
Amount Deposited: 1230
TOTAL LOAN:65000.0
Previous Remaining Amount49000.0
[dipen18, 1230, January Payment 2019, 12, 1, 2020]
Year: 2020
Name: Dipenpatel
Amount Deposited: 6541
TOTAL LOAN:65000.0
Previous Remaining Amount49000.0
[dipen18, 6541, March Payment 2020, 3, 3, 2020]
************************
1.Year Wise Transaction
2.Monthly Transaction
3.Exit
************************
```

Build completed successfully in 3 s 122 ms (a minute ago)



```
Year: 2020
Name: AaravSharma
Amount Deposited: 5120
TOTAL LOAN:100500.0
Previous Remaining Amount90000.0
[aarav3, 5120, December Payment 2020, 12, 12, 2020]
Year: 2020
Name: SnehaGupta
Amount Deposited: 2310
TOTAL LOAN:25000.0
Previous Remaining Amount21364.0
[sneha, 2310, October Payment 2020, 12, 10, 2020]
Year: 2020
Name: Dipenpatel
Amount Deposited: 1230
TOTAL LOAN:65000.0
Previous Remaining Amount49000.0
[dipen18, 1230, January Payment 2019, 12, 1, 2020]
Year: 2020
Name: Dipenpatel
Amount Deposited: 6541
TOTAL LOAN:65000.0
Previous Remaining Amount49000.0
[dipen18, 6541, March Payment 2020, 3, 3, 2020]
************************
1.Year Wise Transaction
2.Monthly Transaction
3.Exit
************************
Enter Your Choice
```

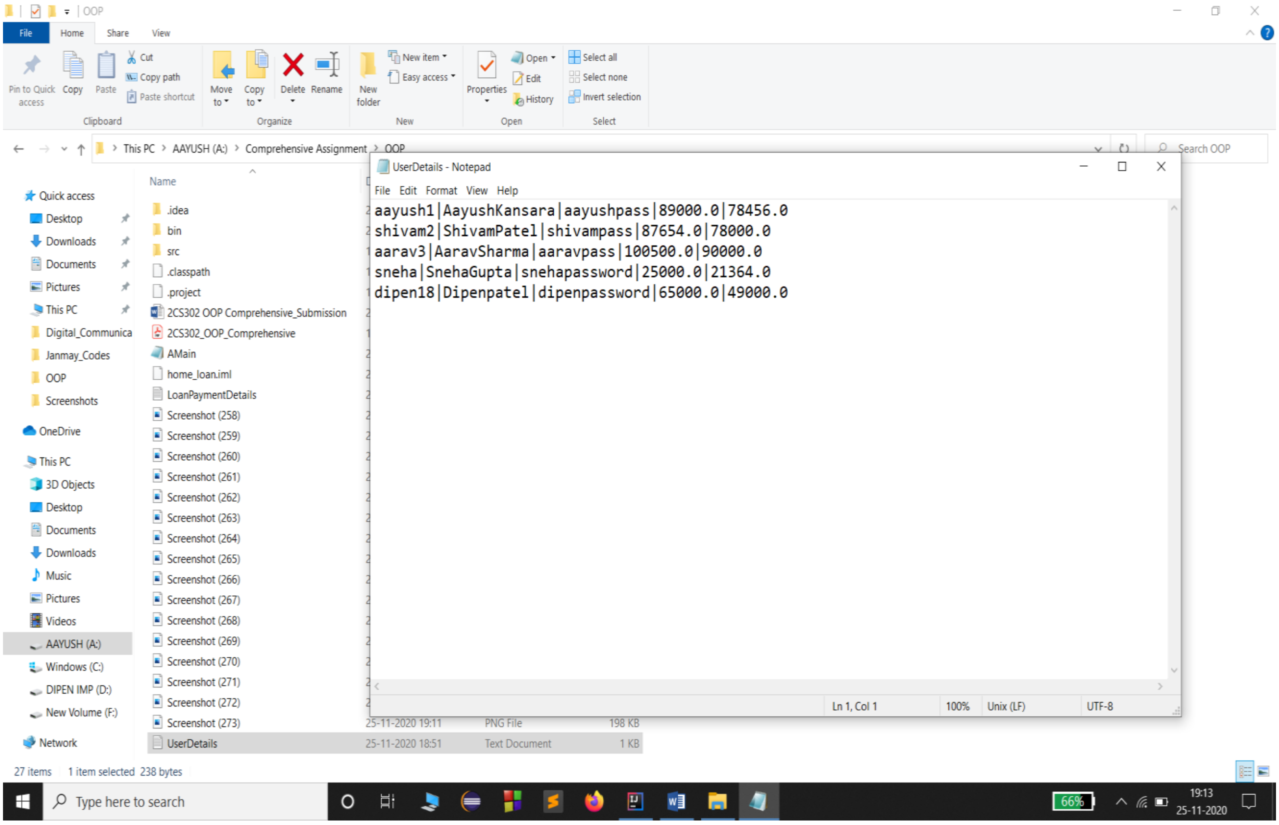
Build completed successfully in 3 s 122 ms (a minute ago)



LoanPaymentDetails - Notepad
File Edit Format View Help
Ln 1, Col 1
100%
Unix (LF)
UTF-8
27 items 1 item selected 379 bytes

```
aayush1|12000|April Payment 2020|6|4|2020
aayush1|23150|May Payment 2019|6|5|2019
shivam2|8540|April Payment 2020|4|4|2020
shivam2|8950|JUly Payment 2020|2|7|2020
aarav3|5120|December Payment 2020|12|12|2020
sneha|2310|October Payment 2020|12|10|2020
sneha|5641|December Payment 2019|2|12|2019
dipen18|1230|January Payment 2019|12|1|2020
dipen18|6541|March Payment 2020|3|3|2020
```

(LOANPAYMENT_DETAILS.TXT FILE HAS BEEN CREATED)



UserDetails - Notepad
File Edit Format View Help
Ln 1, Col 1
100%
Unix (LF)
UTF-8
27 items 1 item selected 238 bytes

```
aayush1|AayushKansara|aayushpass|89000.0|78456.0
shivam2|ShivamPatel|shivampass|87654.0|78000.0
aarav3|AaravSharma|aaravpass|100500.0|90000.0
sneha|SnehaGupta|snehapassword|25000.0|21364.0
dipen18|Dipenpatel|dipenpassword|65000.0|49000.0
```

(UserDetails_Txt File Has Been Created in the same folder)