1 Objective of Project-

To create a program to create a simple trading account and perform some functions of trading with it where customer will be given Rupees 10000.

2 Function Description-

Function(1): **Account_Creater**: This function creates a new account of customer if account do not exist already and return the account number in both cases either account exists or not.

Function(2): **Main_Options**: This function shows all the options available to use for the user or customer.

Function(3): **Vyapaar**: This function switches the user to different menus of the different type of Options and uses some inputs and external methods in it.

Function(4): **Print_Tradings**: This function shows different options for Trading to the user.

Function(5): **buy**: This buy function is used for buying new stocks and it has the exception to not to have the sufficient money to buy the stocks and decrement the money from the account of the user . This function uses different local methods that are set_balance, get_balance, set_stocks, get_stocks etc.

Function(6): **sell**: This sell function is used to sell the stocks the customer already has. and increment the money in his account respectively. it also uses some local methods like showing how many stocks the customer has and how to decrement the stocks form the account.

Function(7) : **Print_DataSheet**: This function is used to print the information of the customer.

Function (8) : **Deposit**: This function is used to deposit the money into the account of the user having the exception of deposit limit exception.

Function (9) : **Withdraw**: This function is used to withdraw the money from the account of the user and decrement it from the account of the user.

Function (10) : **Check_Pin**: This function is used to check the pin if it is same as the set pin or not.

Other Functions : There are many local methods to set, get or print the values of the local and global variables .

3 code of program

Listing 1: Java Mini Project

```
// importing packages
import java.util.*;

// Main class
public class Mini_project {

    // main function
    public static void main(String[] args) {
        // creating object of Scanner class
        Scanner sc = new Scanner(System.in);

        /*creating an array of objects of Trading class
         * and passing it to account creater
         * and after the registration passing it to the Vyapaar method
         * for the trading purpose
        */
        Trading t[] = new Trading[20];
        int account_no_counter = 0;

        System.out.println("*****TRADING ACCOUNT*****");
        System.out.println("Hello sir , \nWelcome to the trading account");

        account_no_counter = acCreater(account_no_counter, t);

        // starting trading
        MainOptions();
        Vyapaar(sc.nextInt(), t[account_no_counter]);


    }

    // for printing MainOptions
    public static void MainOptions() {
        System.out.println("press 1 : Trading \nPress 2 : Forgot pincode ");
        System.out.println("Press 3 : Change mobile number ");
        System.out.println("Press 4 : Print Data sheet \nPress 5 : Exit");
    }

    // function for creating a new Account
    public static int acCreater(int account_no_counter, Trading t[]) {
        // creating object of Scanner class
        Scanner sc = new Scanner(System.in);

        System.out.print("yes to continue with previous account ");
        System.out.println("or no to create a new account (yes/no) : ");

        if (sc.next().equals("yes") && account_no_counter > 0) {
            System.out.println("Please Enter your Account no.");
            account_no_counter = sc.nextInt();
        } else {
            if (account_no_counter == 0)
                System.out.println("YOU DON'T HAVE ANY ACCOUNT");
            System.out.print("To create a new account , \nPlease Enter your Full Name : ");
            String name = sc.nextLine();
            String name2 = sc.nextLine();
```

```
            System.out.print("Please create a PINCODE and REMEMBER it! : ");
            int pincode = sc.nextInt();
            System.out.print("Please Enter your Mobile number : ");
            String mobile_no = sc.next();
            account_no_counter++;
            t[account_no_counter] = new Trading();
            t[account_no_counter].save(name2, mobile_no, pincode);
            System.out.println("Dear, " + name2 + ", YOU ARE SUCCESSFULLY LOGGED IN !");
        }
        return account_no_counter;
    }

    // the main Vyapaar method
    public static void Vyapaar(int a, Trading t1) {

        // creating object of Scanner class
        Scanner sc = new Scanner(System.in);

        // switch on main options
        switch (a) {
            case 1: {
                t1.Print_Tradings();
                int trade_menu = sc.nextInt();

                // switch on trading options
                switch (trade_menu) {

                    // for printing account balance
                    case 1: {
                        System.out.println("Plese enter your pin");
                        if (t1.check_pin(sc.nextInt()))
                            t1.print_balance();
                        else
                            System.out.println("\n WRONG PIN \n");

                        break;
                    }

                    // for buying stocks
                    case 2: {
                        System.out.println("Plese enter your pin");
                        if (t1.check_pin(sc.nextInt())) {
                            try {
                                t1.buy();
                            } catch (InsufficientBalanceException e) {
                                System.out.println(e);
                            }
                        } else
                            System.out.println("\n WRONG PIN \n");

                        break;
                    }

                    // for selling stocks
                    case 3: {
                        System.out.println("Plese enter your pin");
                        if (t1.check_pin(sc.nextInt()))
                            t1.sell();
                        else
                            System.out.println("\n WRONG PIN \n");
                        break;
                    }

                    // for withdrawing money
                    case 4: {
                        System.out.println("Plese enter your pin");
                        if (t1.check_pin(sc.nextInt())) {
                            System.out.println("How much money do you want to withdraw");
                            try {
                                t1.withdraw(sc.nextInt());
                            } catch (InsufficientBalanceException e) {
                                System.out.println(e);
                            }
                        } else
```

```
                System.out.println("\n WRONG PIN \n");
            break;
        }

        // for depositing money
        case 5: {
            System.out.println("Plese enter your pin");
            if (t1.check_pin(sc.nextInt())) {
                System.out.println("How much money do you want to deposit");
                try {
                    t1.deposit(sc.nextInt());
                } catch (DepositLimitException o) {
                    System.out.println(o);
                }
            } else
                System.out.println("\n WRONG PIN \n");
            break;
        }

        // for switching to mainoptions
        case 6: {
            MainOptions();
            Vyapaar(sc.nextInt(), t1);
            return;
        }
        case 7: return;
    }
    break;
}

// case 2 of main options : change pincode
case 2: {
    System.out.print("Enter your name : ");
    if(sc.nextLine().equals(t1.name)) {
        System.out.print("Enter your mobile no. : ");
        if(sc.nextLine().equals(t1.mobile_number)){
            System.out.print("Enter new pincode :");
            t1.pincode = sc.nextInt();
            System.out.println("**Your pincode has successfully changed**");
        }
        else {
            System.out.println("Incurrect mobile number");
        }
    } else {
        System.out.println("Wrong name");
    }
    break;
}

// for changing mobile number
case 3: {
    System.out.print("Enter your name : ");
    if(sc.nextLine().equals(t1.name)) {
        System.out.print("Enter your pincode : ");
        if(sc.nextInt()==(t1.pincode)){
            System.out.print("Enter new mobile number :");
            t1.mobile_number = sc.next();
            System.out.println("**Your mobile number has successfully changed**");
        }
        else {
            System.out.println("Incurrect pincode number");
        }
    } else {
        System.out.println("Wrong name");
    }
    break;
}

// for printing data sheet
case 4: {
    // databook;
    System.out.print("Enter your mobile no. : ");
    if(sc.nextLine().equals(t1.mobile_number)){
        System.out.println("Enter your pincode : ");
```

```
                    if(sc.nextInt()==t1.pincode) {
                        System.out.print("Datasheet is printing :");
                        t1.printDataSheet();
                    }
                    else {
                        System.out.println("Incurrect mobile number");
                    }
                } else {

                    System.out.println("Wrong name");
                }
                break;
            }

            default: {
                return;
            }
        }

        // In the last of process
        System.out.println("Do you want to process further, If yes then press 1 otherwise anything");
        if (sc.next().equals("1")) {
            MainOptions();
            Vyapaar(sc.nextInt(), t1);
        }

    }

}

// the main trading class
class Trading extends Accounting {

    // creating object of Scanner class
    Scanner sc = new Scanner(System.in);

    private int myStocks;

    public int get_myStock() {
        return myStocks;
    }

    public void print_mystocks() {
        System.out.println(get_myStock());
    }

    public void set_myStocks(int a) {
        myStocks = a;
    }

    public void Print_Tradings() {
        System.out.println(" Press 1: Check balance \n Press 2: Buy \n Press 3: Sell");
        System.out.println(" Press 4: withdraw \n Press 5: Deposit \n Press 6: Main menu \n Press 7: Exit");
    }

    // for buying stocks
    public void buy() throws InsufficientBalanceException {

        int stock = (int) (Math.random() * (9980) + 20);
        System.out.println("The value of one Stock is Rs. " + stock);
        System.out.println("How many stocks do you want to buy");
        int noOfStocks = sc.nextInt();

        if (noOfStocks * stock > this.get_balance()) {
            throw new InsufficientBalanceException("InsufficientBalanceException : insufficient balance");
        } else {
            int kharcha = this.get_balance() - noOfStocks * stock;
            this.set_balance(kharcha);
        }
        System.out.println("[YOU HAVE SUCCESSFULLY BOUGHT " + noOfStocks + " stocks ]");
        int maza = this.get_myStock() + noOfStocks;
        this.set_myStocks(maza);
    }
```

```
    // for selling stocks
    public void sell() {

        int stock = (int) (Math.random() * (9980) + 20);
        System.out.println("The value of one Stock is Rs. " + stock);
        System.out.println("You have " + this.get_myStock() + " stocks, How many do you want to sell");
        int noOfStocks = sc.nextInt();
        if (noOfStocks <= this.get_myStock()) {
            int kharcha2 = this.get_balance() + noOfStocks * stock;
            this.set_balance(kharcha2);
            System.out.println("[YOU HAVE SUCCESSFULLY SOLD " + noOfStocks + " STOCKS]");
            int maza2 = this.get_myStock() - noOfStocks;
            this.set_myStocks(maza2);
        } else {
            System.out.println("[YOU DON'T HAVE " + noOfStocks + " STOCKS ]");
        }
    }

    // function for printing datasheet
    public void printDataSheet(){
        System.out.println("\t\tName : "+this.name);
        System.out.println("\t\tAccount number : "+this.account_number);
        System.out.println("\t\tMobile Number : "+this.mobile_number);
        System.out.println("\t\tAccount balance : "+this.get_balance());
        System.out.println("\t\tNo. of Stocks : "+this.get_myStock());

    }

}

// Account class to handle accounting processes
class Accounting  {

    protected String name;
    protected String mobile_number;
    protected int pincode;
    protected int account_number;
    public void save(String name, String mobile_number, int pincode) {
        this.name = name;
        this.mobile_number = mobile_number;
        this.pincode = pincode;
        // this.account_number = account_number;
    }


    protected int acc_balance = 10000;

    public int get_balance() {
        return this.acc_balance;
    }

    public void print_balance() {
        System.out.println("your account balance is " + this.acc_balance);
    }

    public void set_balance(int a) {
        this.acc_balance = a;
    }

    public void deposit(int money) throws DepositLimitException {
        if (money > 10000) {
            throw new DepositLimitException("DepositLimitException : more than 10000 at a time");
        }
        this.acc_balance = acc_balance + money;
    }

    public void withdraw(int money) throws InsufficientBalanceException {
        if (acc_balance < money) {
            throw new InsufficientBalanceException("InsufficientBalanceException : insufficient balance");
        } else {
            this.acc_balance = acc_balance - money;
        }
    }
```

```
    public boolean check_pin(int a) {
        if (this.pincode == a) {
            return true;
        } else
            return false;
    }
}

// the exception classes
class InsufficientBalanceException extends Exception {
    InsufficientBalanceException(String message) {
        System.out.println(message);
    }
}

// the exception classes
class DepositLimitException extends Exception {
    DepositLimitException(String message) {
        System.out.println(message);
    }
}
```

4 Output of program

PROBLEMS 38 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\hp\Documents\coding\java assignment> javac Mini_project.java
PS C:\Users\hp\Documents\coding\java assignment> java Mini_project.java
*****TRADING ACCOUNT*****
Hello sir,
Welcome to the trading account
yes to continue with previous account or no to create a new account (yes/no) :
no
YOU DON'T HAVE ANY ACCOUNT
To create a new account,
Please Enter your Full Name : Arvind kurmi
Please create a PINCODE and REMEMBER it! : 25
Please Enter your Mobile number : 7828437107
Dear, Arvind kurmi, YOU ARE SUCCESSFULLY LOGGED IN !
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
1
 Press 1: Check balance
 Press 2: Buy
 Press 3: Sell
 Press 4: withdraw
 Press 5: Deposit
 Press 6: Main menu
 Press 7: Exit
1
Plese enter your pin
25
your account balance is 10000
Do you want to process further, If yes then press 1 otherwise anything
1
```

```
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
1
 Press 1: Check balance
 Press 2: Buy
 Press 3: Sell
 Press 4: withdraw
 Press 5: Deposit
 Press 6: Main menu
 Press 7: Exit
2
Plese enter your pin
25
The value of one Stock is Rs. 5644
How many stocks do you want to buy
1
[YOU HAVE SUCCESSFULLY BOUGHT 1 stocks ]
Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
1
 Press 1: Check balance
 Press 2: Buy
 Press 3: Sell
 Press 4: withdraw
 Press 5: Deposit
 Press 6: Main menu
 Press 7: Exit
```

```
3
Plese enter your pin
25
The value of one Stock is Rs. 5229
You have 1 stocks, How many do you want to sell
1
[YOU HAVE SUCCESSFULLY SOLD 1 STOCKS]
Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
1
 Press 1: Check balance
 Press 2: Buy
 Press 3: Sell
 Press 4: withdraw
 Press 5: Deposit
 Press 6: Main menu
 Press 7: Exit
1
Plese enter your pin
24

 WRONG PIN

Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
1
```

```
Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
1
 Press 1: Check balance
 Press 2: Buy
 Press 3: Sell
 Press 4: withdraw
 Press 5: Deposit
 Press 6: Main menu
 Press 7: Exit
1
Plese enter your pin
25
your account balance is 9585
Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
1
 Press 1: Check balance
 Press 2: Buy
 Press 3: Sell
 Press 4: withdraw
 Press 5: Deposit
 Press 6: Main menu
 Press 7: Exit
```

```
6
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
2
Enter your name : Arvind kurmi
Enter your mobile no. : 7828437107
Enter new pincode :74
**Your pincode has successfully changed**
Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
1
 Press 1: Check balance
 Press 2: Buy
 Press 3: Sell
 Press 4: withdraw
 Press 5: Deposit
 Press 6: Main menu
 Press 7: Exit
1
Plese enter your pin
74
your account balance is 9585
Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
```

```
Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
3
Enter your name : Arvind kurmi
Enter your pincode : 74
Enter new mobile number :8839422033
**Your mobile number has successfully changed**
Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
4
Enter your mobile no. : 8839422033
Enter your pincode :
74
Datasheet is printing :         Name : Arvind kurmi
                Account number : 0
                Mobile Number : 8839422033
                Account balance : 9585
                No. of Stocks : 0
Do you want to process further, If yes then press 1 otherwise anything
1
press 1 : Trading
Press 2 : Forgot pincode
Press 3 : Change mobile number
Press 4 : Print Data sheet
Press 5 : Exit
5
PS C:\Users\hp\Documents\coding\java assignment>
```

5 profiling of program

Console JProfiler

Apply Graph | Recordings:

Method	Total Time	Self Time	Invocation
Mini_project.main	34,699 ms	12,048 µs	1
Mini_project.acCreater	34,626 ms	21 µs	1
java.util.Scanner.next	34,626 ms	34,626 ms	1
java.util.Scanner.<init>	60,948 µs	60,948 µs	2
java.io.PrintStream.println	430 µs	430 µs	3
java.io.PrintStream.print	83 µs	83 µs	1

Aggregation level: Classes

Name	Instance Count	Size
byte[ ]	33,122	1,962 kB
java.lang.String	21,589	518 kB
java.lang.Object[ ]	5,254	292 kB
java.lang.StringBuilder	5,203	124 kB
jdk.internal.org.objectweb.asm.SymbolTable$Entry	4,249	237 kB
int[ ]	3,239	120 kB
java.util.HashMap$Node	3,068	98,176 bytes
java.util.concurrent.ConcurrentHashMap$Node	2,846	91,072 bytes
java.lang.Object	2,669	42,704 bytes
java.lang.Class[ ]	1,902	53,432 bytes
java.lang.Class	1,847	227 kB
java.lang.invoke.MethodType	1,331	53,240 bytes
java.lang.management.MemoryUsage	1,256	60,288 bytes
java.lang.invoke.MemberName	1,149	55,152 bytes
com.jprofiler.agent.util.n	1,059	93,192 bytes
java.lang.String[ ]	836	33,784 bytes
java.util.ArrayList$Itr	833	26,656 bytes
java.util.Hashtable$Entry	706	22,592 bytes
java.lang.invoke.LambdaForm$Name	621	19,872 bytes
java.util.ImmutableCollections$SetN$SetNIterator	603	14,472 bytes
jdk.internal.org.objectweb.asm.ByteVector	590	14,160 bytes
java.lang.invoke.MethodType$ConcurrentWeakInternSet$WeakEntry	541	17,312 bytes
java.util.HashMap	477	22,896 bytes
java.util.HashMap$Node[ ]	444	51,736 bytes
java.lang.invoke.LambdaForm$Name[ ]	434	21,912 bytes
java.util.ArrayList	404	9,696 bytes
java.lang.ref.WeakReference	375	12,000 bytes
java.lang.module.ModuleDescriptor$Exports	361	8,664 bytes
Total:	116,444	7,258 kB

Thread status: Runnable | Thread selection: All thread groups | Aggregation level: Methods

- 100.0% - 132 s - 1 inv. Mini_project.main
  - 99.9% - 131 s - 1 inv. Mini_project.acCreater
    - 99.9% - 131 s - 1 inv. java.util.Scanner.next
    - 0.0% - 351 µs - 1 inv. java.util.Scanner.<init>
    - 0.0% - 83 µs - 1 inv. java.io.PrintStream.print
    - 0.0% - 40 µs - 1 inv. java.io.PrintStream.println
  - 0.0% - 60,597 µs - 1 inv. java.util.Scanner.<init>
  - 0.0% - 390 µs - 2 inv. java.io.PrintStream.println

Thread status: Runnable | Thread selection: All thread groups | Aggregation level: Methods | Hot spot options: Self times

Hot Spot	Self Time	Average Time	Invocations
java.util.Scanner.next	116 s (99 %)	116 s	
99.9% - 116 s - 1 hot spot inv. Mini_project.acCreater			
99.9% - 116 s - 1 hot spot inv. Mini_project.main			
java.util.Scanner.<init>	60,948 µs (0 %)	30,474 µs	
0.1% - 60,597 µs - 1 hot spot inv. Mini_project.main			
0.0% - 351 µs - 1 hot spot inv. Mini_project.acCreater			
Mini_project.main	12,048 µs (0 %)	12,048 µs	
0.0% - 12,048 µs - 1 hot spot inv. filtered call stacks			
java.io.PrintStream.println	430 µs (0 %)	143 µs	
0.0% - 390 µs - 2 hot spot inv. Mini_project.main			
0.0% - 40 µs - 1 hot spot inv. Mini_project.acCreater			
java.io.PrintStream.print	83 µs (0 %)	83 µs	
0.0% - 83 µs - 1 hot spot inv. Mini_project.acCreater			
0.0% - 83 µs - 1 hot spot inv. Mini_project.main			
Mini_project.acCreater	21 µs (0 %)	21 µs	
0.0% - 21 µs - 1 hot spot inv. Mini_project.main			

6 debugging of program

```
PS C:\Users\hp\IdeaProjects\account> javac -g Mini_project.java
PS C:\Users\hp\IdeaProjects\account> jdb Mini_project
Initializing jdb ...
> stop at Mini_project:18
Deferring breakpoint Mini_project:18.
It will be set after the class is loaded.
> stop at Mini_project:32
Deferring breakpoint Mini_project:32.
It will be set after the class is loaded.
> stop in Mini_project.MainOptions()
Deferring breakpoint Mini_project.MainOptions().
It will be set after the class is loaded.
> stop in Mini_project.Print_Tradings()
Deferring breakpoint Mini_project.Print_Tradings().
It will be set after the class is loaded.
> stop in Mini_project.printDataSheet()
Deferring breakpoint Mini_project.printDataSheet().
It will be set after the class is loaded.
> run
run Mini_project
Set uncaught java.lang.Throwable
Set deferred uncaught java.lang.Throwable
>
VM Started: Set deferred breakpoint Mini_project.printDataSheet()
Set deferred breakpoint Mini_project.Print_Tradings()
Set deferred breakpoint Mini_project.MainOptions()
Set deferred breakpoint Mini_project:32
Set deferred breakpoint Mini_project:18

Breakpoint hit: "thread=main", Mini_project.main(), line=18 bci=11
```

```
Breakpoint hit: "thread=main", Mini_project.main(), line=18 bci=11
18            int account_no_counter = 0;

main[1] next
>
Step completed: "thread=main", Mini_project.main(), line=20 bci=13
20            System.out.println("*****TRADING ACCOUNT*****");

main[1] next
> *****TRADING ACCOUNT*****

Step completed: "thread=main", Mini_project.main(), line=21 bci=21
21            System.out.println("Hello sir, \nWelcome to the trading account");

main[1] next
> Hello sir,
We
Step completed: lcome to the trading ac"thread=main", Mini_project.main(), line=27 bci=29
count
27            MainOptions();

main[1] next
>
Breakpoint hit: "thread=main", Mini_project.MainOptions(), line=38 bci=0
38            System.out.println("press 1 : Trading \nPress 2 : Forgot pincode ");

main[1] next
> press 1 : Tr
Step completed: ading
```

```
> press 1 : Tr
Step completed: ading
Press 2 :"thread=main", Mini_project.MainOptions(), line=39 bci=8
 Forgot pincode39            System.out.println("Press 3 : Change mobile number ");


main[1] next
> Press 3 :
CStep completed: hange mobile number
"thread=main", Mini_project.MainOptions(), line=40 bci=16
40            System.out.println("Press 4 : Print Data sheet \nPress 5 : Exit");

main[1] next
> Press 4 : Print Data sheet
Press 5 : Exit

Step completed: "thread=main", Mini_project.MainOptions(), line=41 bci=24
41        }

main[1] next
>
Step completed: "thread=main", Mini_project.main(), line=28 bci=32
28            Print_Tradings();

main[1] next
>
Breakpoint hit: "thread=main", Mini_project.Print_Tradings(), line=53 bci=0
53            System.out.println(" Press 1: Check balance");

main[1]
```

```
>  Press 1: Chec
Step completed: k balance
"thread=main", Mini_project.Print_Tradings(), line=54 bci=8
54            System.out.println(" Press 2: Buy");

main[1] next
>  Press 2:
BuyStep completed:
"thread=main", Mini_project.Print_Tradings(), line=55 bci=16
55            System.out.println(" Press 3: Sell");

main[1] next
>  Press 3
Step completed: : Sell
"thread=main", Mini_project.Print_Tradings(), line=56 bci=24
56            System.out.println(" Press 4: withdraw");

main[1] next
>  Press 4: with
Step completed: draw
"thread=main", Mini_project.Print_Tradings(), line=57 bci=32
57            System.out.println(" Press 6: Main menu");

main[1] next
>  Press 6:
Step completed:  Main menu
"thread=main", Mini_project.Print_Tradings(), line=58 bci=40
58            System.out.println(" Press 7: Exit");
```

```
main[1] next
>  Press 1: Chec
Step completed: k balance
"thread=main", Mini_project.Print_Tradings(), line=54 bci=8
54            System.out.println(" Press 2: Buy");

main[1] next
>  Press 2:
BuyStep completed:
"thread=main", Mini_project.Print_Tradings(), line=55 bci=16
55            System.out.println(" Press 3: Sell");

main[1] next
>  Press 3
Step completed: : Sell
"thread=main", Mini_project.Print_Tradings(), line=56 bci=24
56            System.out.println(" Press 4: withdraw");

main[1] next
>  Press 4: with
Step completed: draw
"thread=main", Mini_project.Print_Tradings(), line=57 bci=32
57            System.out.println(" Press 6: Main menu");

main[1] next
>  Press 6:
Step completed:  Main menu
"thread=main", Mini_project.Print_Tradings(), line=58 bci=40
58            System.out.println(" Press 7: Exit");
```

```
main[1] next
>  Press 7: Exit

Step completed: "thread=main", Mini_project.Print_Tradings(), line=59 bci=48
59        }

main[1] next
>
Step completed: "thread=main", Mini_project.main(), line=29 bci=35
29            printDataSheet();

main[1] next
>
Breakpoint hit: "thread=main", Mini_project.printDataSheet(), line=44 bci=0
44            System.out.println("\t\tName : arvind");

main[1] next
>               Name : arvind

Step completed: "thread=main", Mini_project.printDataSheet(), line=45 bci=8
45            System.out.println("\t\tAccount number : 01 ");

main[1] next
>               Account number : 01

Step completed: "thread=main", Mini_project.printDataSheet(), line=46 bci=16
46            System.out.println("\t\tMobile Number : 7834928483 ");
```

```
Step completed: "thread=main", Mini_project.printDataSheet(), line=46 bci=16
46            System.out.println("\t\tMobile Number : 7834928483 ");

main[1] next
>               Mobile Number : 7834928483

Step completed: "thread=main", Mini_project.printDataSheet(), line=47 bci=24
47            System.out.println("\t\tAccount balance :100000 ");

main[1] next
>               Account balance :100000

Step completed: "thread=main", Mini_project.printDataSheet(), line=48 bci=32
48            System.out.println("\t\tNo. of Stocks : 2");

main[1] next
>               No. of Stocks : 2

Step completed: "thread=main", Mini_project.printDataSheet(), line=50 bci=40
50        }

main[1] next
>
Step completed:
Breakpoint hit: "thread=main", Mini_project.main(), line=32 bci=38
32            System.out.println("programm terminated successfully");
```

```
main[1] next
>               Account balance :100000

Step completed: "thread=main", Mini_project.printDataSheet(), line=48 bci=32
48            System.out.println("\t\tNo. of Stocks : 2");

main[1] next
>               No. of Stocks : 2

Step completed: "thread=main", Mini_project.printDataSheet(), line=50 bci=40
50        }

main[1] next
>
Step completed:
Breakpoint hit: "thread=main", Mini_project.main(), line=32 bci=38
32            System.out.println("programm terminated successfully");

main[1] next
> programm terminated successfully

Step completed: "thread=main", Mini_project.main(), line=34 bci=46
34        }

main[1] next
>
The application exited
PS C:\Users\hp\IdeaProjects\account>
```

7 Miscellaneous Information

Starting Date -18/11/22

Starting Day -Friday

Ending Date -21/11/22

Ending Day -Monday

Total Time required - 4 days

Total line of code - 372 lines

Total number of functions - 10 + locals

Language Used - Java

Profiller used - Jprofiler

Debugger used - JDB

Project Title - Trading Account