K.R. Mangalam University

School of Engineering & Technology

Assignment 1

Java Programming

Submitted by:

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Class: BCA (AI & DS)

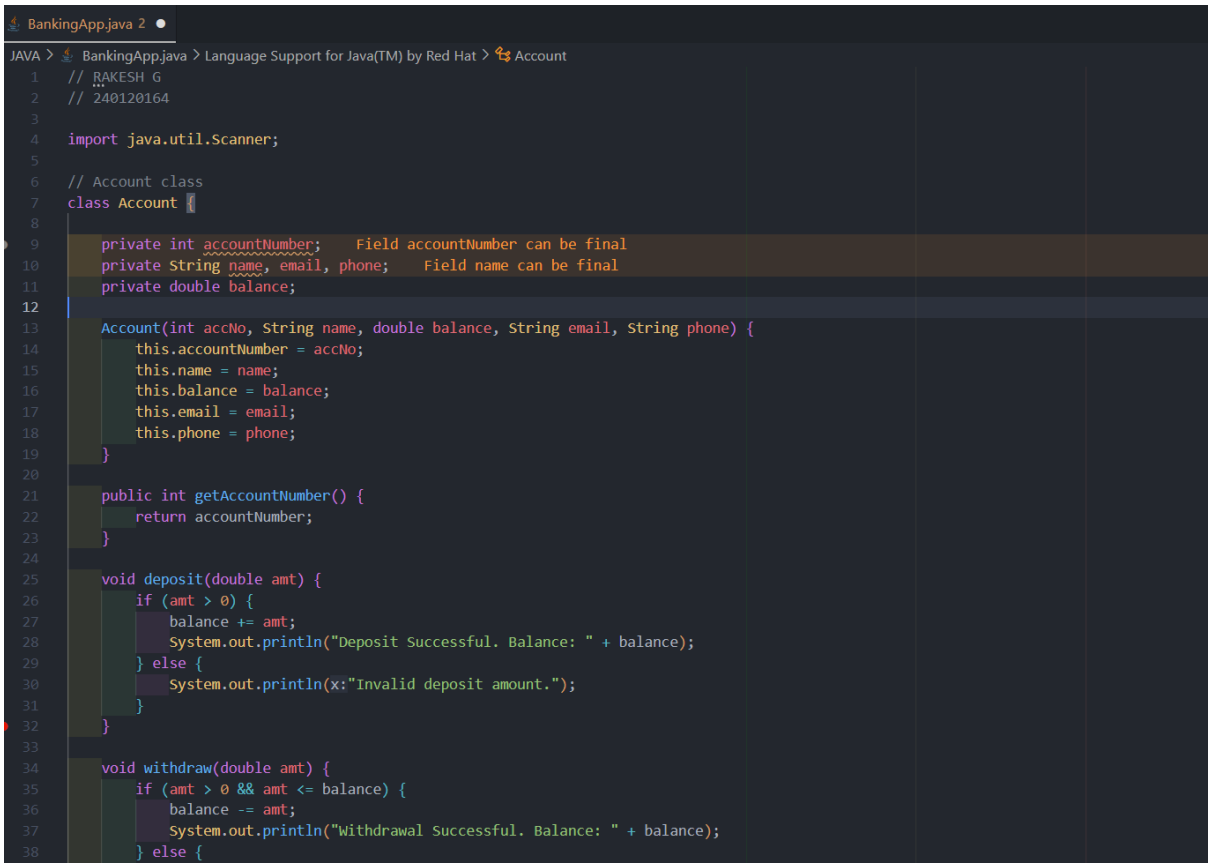
Submitted to:

Dr. Manish Kumar

GitHub Repository:

https://github.com/rakesh4407/Java_Assignment_Rakesh

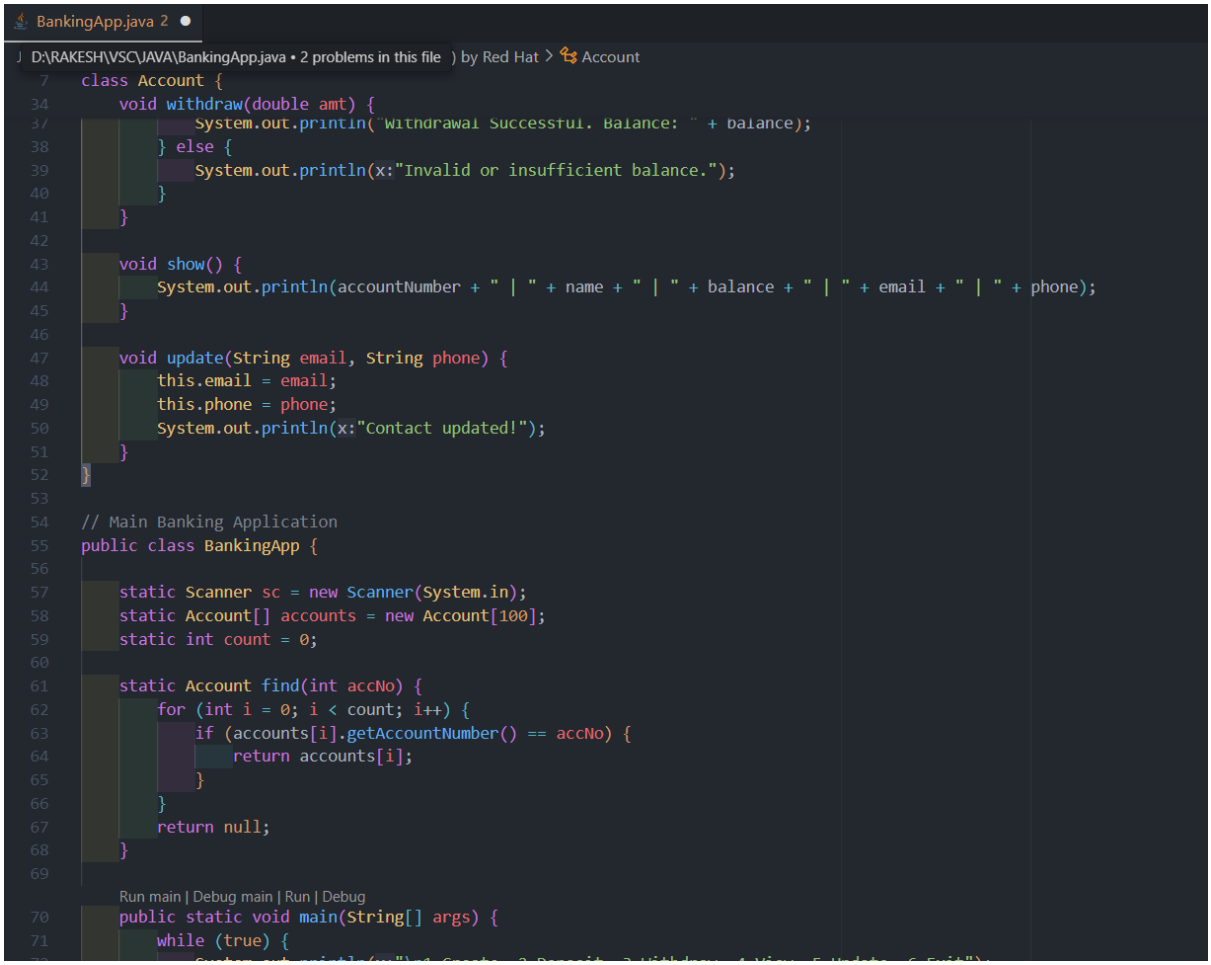
CODE:

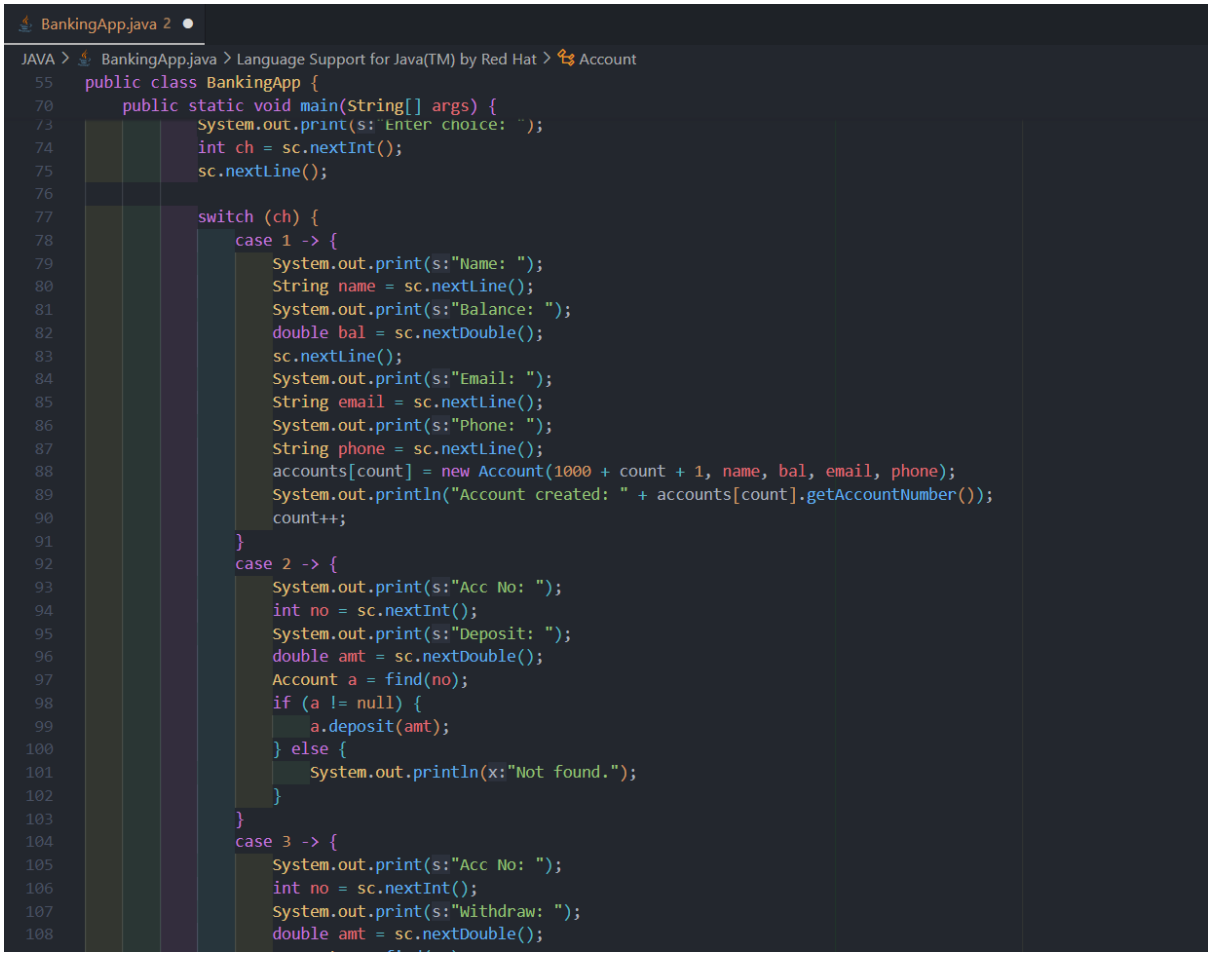


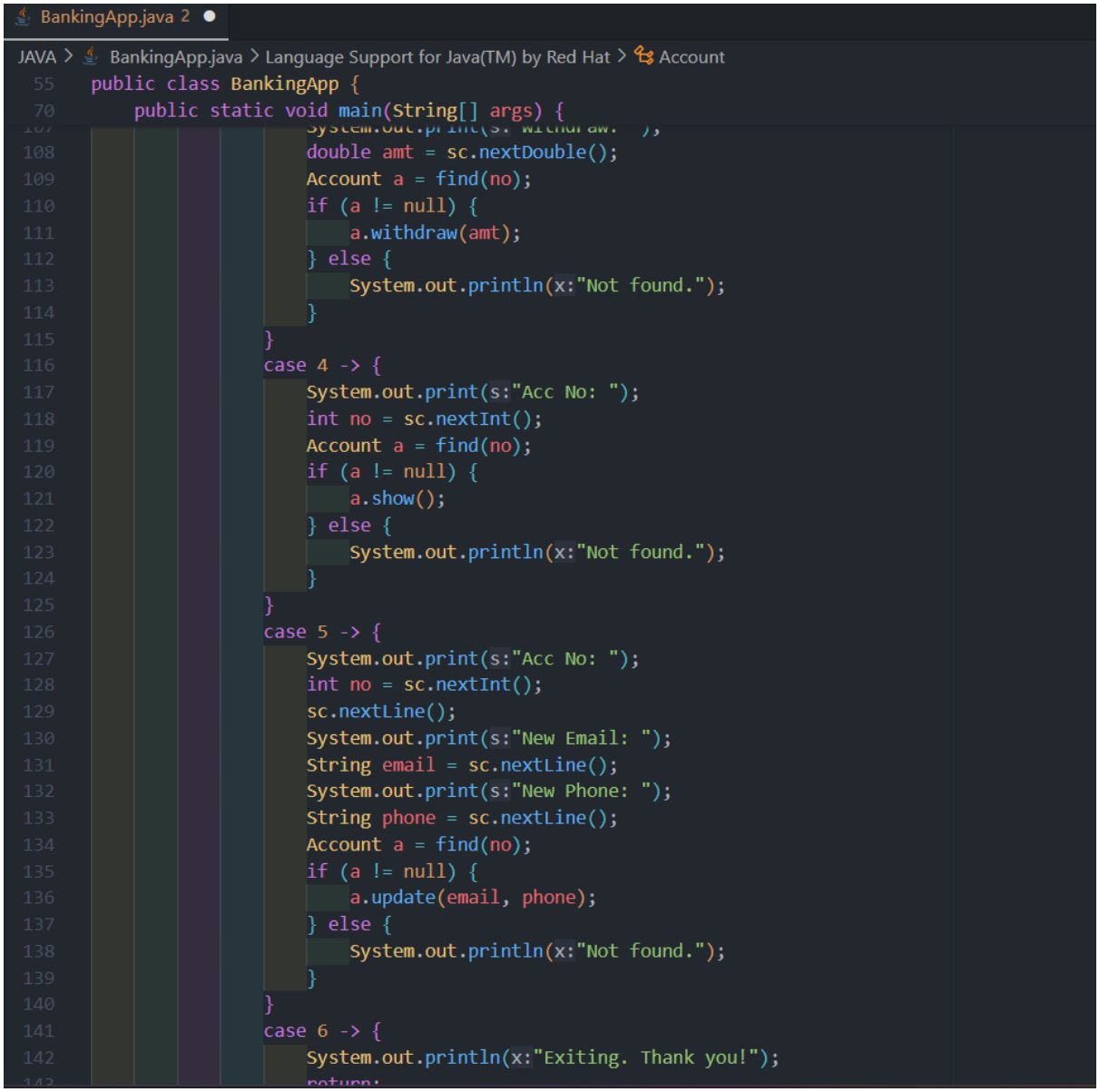
BankingApp.java 2

JAVA > BankingApp.java > Language Support for Java(TM) by Red Hat > Account

```java
// RAKESH G
// 240120164

import java.util.Scanner;

// Account class
class Account {

    private int accountNumber;    Field accountNumber can be final
    private String name, email, phone;    Field name can be final
    private double balance;

    Account(int accNo, String name, double balance, String email, String phone) {
        this.accountNumber = accNo;
        this.name = name;
        this.balance = balance;
        this.email = email;
        this.phone = phone;
    }

    public int getAccountNumber() {
        return accountNumber;
    }

    void deposit(double amt) {
        if (amt > 0) {
            balance += amt;
            System.out.println("Deposit Successful. Balance: " + balance);
        } else {
            System.out.println(x:"Invalid deposit amount.");
        }
    }

    void withdraw(double amt) {
        if (amt > 0 && amt <= balance) {
            balance -= amt;
            System.out.println("Withdrawal Successful. Balance: " + balance);
        } else {
```


BankingApp.java 2
D:\RAKESH\VSC\JAVA\BankingApp.java • 2 problems in this file
by Red Hat
Account
class Account {
void withdraw(double amt) {
System.out.println("Withdrawal Successful. Balance: " + balance);
} else {
System.out.println(x:"Invalid or insufficient balance.");
}
}
void show() {
System.out.println(accountNumber + " | " + name + " | " + balance + " | " + email + " | " + phone);
}
void update(String email, String phone) {
this.email = email;
this.phone = phone;
System.out.println(x:"Contact updated!");
}
}
// Main Banking Application
public class BankingApp {
static Scanner sc = new Scanner(System.in);
static Account[] accounts = new Account[100];
static int count = 0;
static Account find(int accNo) {
for (int i = 0; i < count; i++) {
if (accounts[i].getAccountNumber() == accNo) {
return accounts[i];
}
}
return null;
}
Run main | Debug main | Run | Debug
public static void main(String[] args) {
while (true) {


BankingApp.java 2
JAVA > BankingApp.java > Language Support for Java(TM) by Red Hat > Account
55 public class BankingApp {
70 public static void main(String[] args) {
System.out.print(s:"Enter choice: ");
int ch = sc.nextInt();
sc.nextLine();
switch (ch) {
case 1 -> {
System.out.print(s:"Name: ");
String name = sc.nextLine();
System.out.print(s:"Balance: ");
double bal = sc.nextDouble();
sc.nextLine();
System.out.print(s:"Email: ");
String email = sc.nextLine();
System.out.print(s:"Phone: ");
String phone = sc.nextLine();
accounts[count] = new Account(1000 + count + 1, name, bal, email, phone);
System.out.println("Account created: " + accounts[count].getAccountNumber());
count++;
}
case 2 -> {
System.out.print(s:"Acc No: ");
int no = sc.nextInt();
System.out.print(s:"Deposit: ");
double amt = sc.nextDouble();
Account a = find(no);
if (a != null) {
a.deposit(amt);
} else {
System.out.println(x:"Not found.");
}
}
case 3 -> {
System.out.print(s:"Acc No: ");
int no = sc.nextInt();
System.out.print(s:"Withdraw: ");
double amt = sc.nextDouble();


BankingApp.java 2
JAVA > BankingApp.java > Language Support for Java(TM) by Red Hat > Account
public class BankingApp {
public static void main(String[] args) {
double amt = sc.nextDouble();
Account a = find(no);
if (a != null) {
a.withdraw(amt);
} else {
System.out.println(x:"Not found.");
}
}
case 4 -> {
System.out.print(s:"Acc No: ");
int no = sc.nextInt();
Account a = find(no);
if (a != null) {
a.show();
} else {
System.out.println(x:"Not found.");
}
}
case 5 -> {
System.out.print(s:"Acc No: ");
int no = sc.nextInt();
sc.nextLine();
System.out.print(s:"New Email: ");
String email = sc.nextLine();
System.out.print(s:"New Phone: ");
String phone = sc.nextLine();
Account a = find(no);
if (a != null) {
a.update(email, phone);
} else {
System.out.println(x:"Not found.");
}
}
case 6 -> {
System.out.println(x:"Exiting. Thank you!");

BankingApp.java 2

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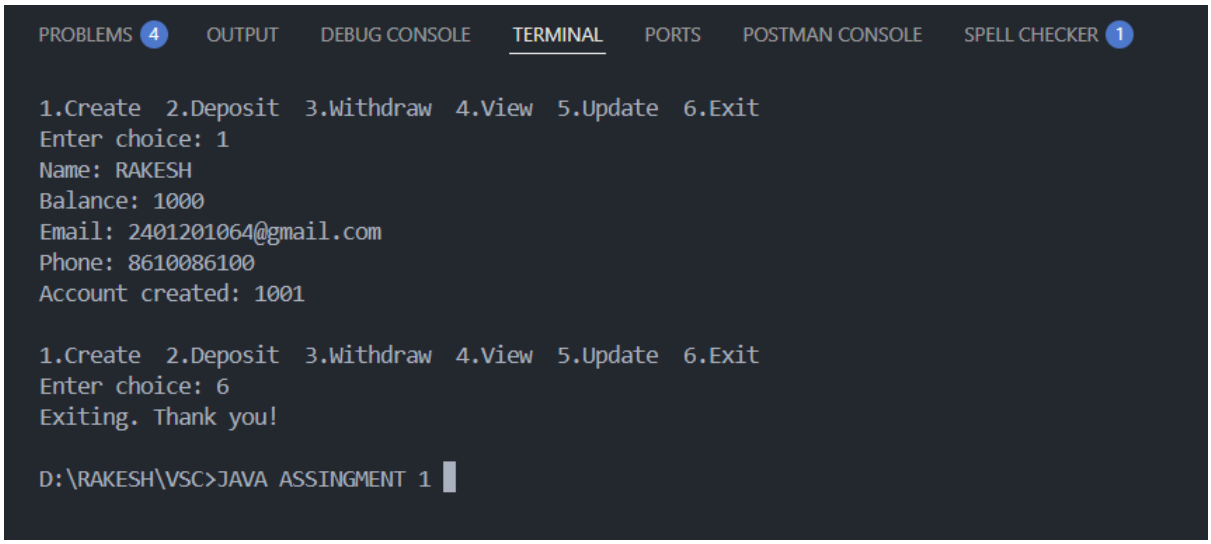
```
55  public class BankingApp {
70      public static void main(String[] args) {
                }
116             case 4 -> {
117                 System.out.print(s:"Acc No: ");
118                 int no = sc.nextInt();
119                 Account a = find(no);
120                 if (a != null) {
121                     a.show();
122                 } else {
123                     System.out.println(x:"Not found.");
124                 }
125             }
126             case 5 -> {
127                 System.out.print(s:"Acc No: ");
128                 int no = sc.nextInt();
129                 sc.nextLine();
130                 System.out.print(s:"New Email: ");
131                 String email = sc.nextLine();
132                 System.out.print(s:"New Phone: ");
133                 String phone = sc.nextLine();
134                 Account a = find(no);
135                 if (a != null) {
136                     a.update(email, phone);
137                 } else {
138                     System.out.println(x:"Not found.");
139                 }
140             }
141             case 6 -> {
142                 System.out.println(x:"Exiting. Thank you!");
143                 return;
144             }
145             default ->
146                 System.out.println(x:"Invalid choice!");
147         }
148     }
149 }
150 }
```

OUTPUT:


PROBLEMS 4
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
POSTMAN CONSOLE
SPELL CHECKER 1
1.Create 2.Deposit 3.Withdraw 4.View 5.Update 6.Exit
Enter choice: 1
Name: RAKESH
Balance: 1000
Email: 2401201064@gmail.com
Phone: 8610086100
Account created: 1001
1.Create 2.Deposit 3.Withdraw 4.View 5.Update 6.Exit
Enter choice: 6
Exiting. Thank you!
D:\RAKESH\VSC>JAVA ASSINGMENT 1