Wk8prog1 - Notepad

File Edit Format View Help

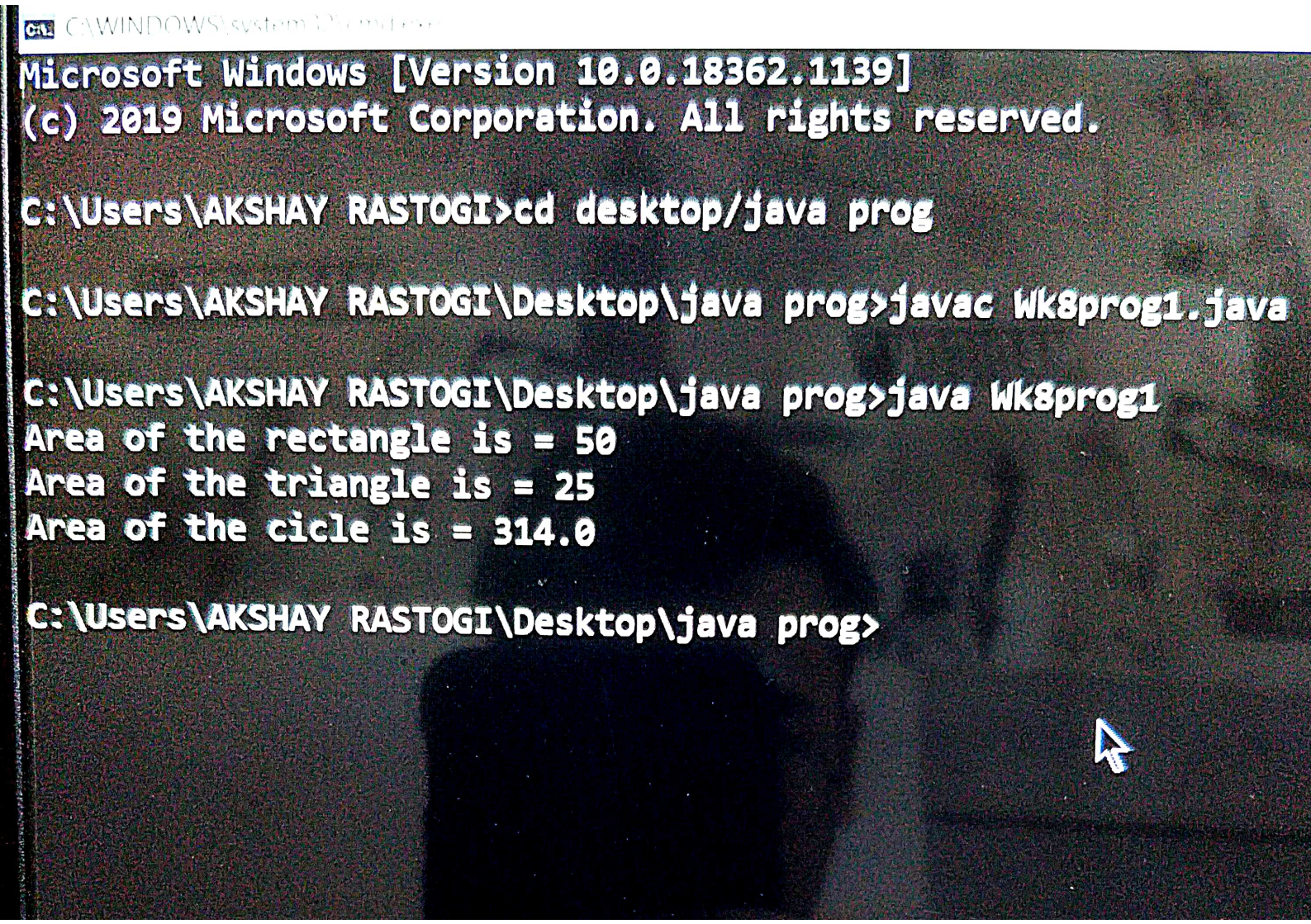
```
import java.util.Scanner;
abstract class Shape{
int b,h;
Shape(int base, int height){
this.b = base;
this.h = height;
}
void printArea(){};
}

class Rectangle extends Shape{
Rectangle(int base, int height){
super(base,height);
}
void printArea() {
System.out.println("Area of the rectangle is = " + (b*h));
};
}

class Triangle extends Shape{
Triangle(int base, int height){
super(base,height);
}
void printArea() {
System.out.println("Area of the triangle is = " + ((b*h)/2));
};
}

class Circle extends Shape{
Circle(int height){
super(0,height);
}
void printArea() {
System.out.println("Area of the cicle is = " + (3.14*h*h));
};
}

class Wk8prog1{
public static void main(String[] args) {
Rectangle r = new Rectangle(10, 5);
Triangle t = new Triangle(10, 5);
Circle c = new Circle(10);
r.printArea();
t.printArea();
c.printArea();
}
}
```


C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.18362.1139]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\AKSHAY RASTOGI>cd desktop/java prog
C:\Users\AKSHAY RASTOGI\Desktop\java prog>javac Wk8prog1.java
C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk8prog1
Area of the rectangle is = 50
Area of the triangle is = 25
Area of the cicle is = 314.0
C:\Users\AKSHAY RASTOGI\Desktop\java prog>

Wk8prog2 - Notepad

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```
import java.util.Scanner;
abstract class Account
{
String cust_name;
String acc_no;
String acc_type;
double balance;
double min_bal = 1000.0;

Account (String cust_name, String acc_no,String acc_type,double balance) {
this.cust_name=cust_name;
this.acc_no=acc_no;
this.acc_type=acc_type;
this.balance=balance;
}
abstract void deposit(double amount);
abstract void display();
abstract void withdrawal(double amount);
}

class Curr_acct extends Account
{
double penalty=100.0;
Curr_acct(String cust_name, String acc_no,String acc_type,double balance)
{
super(cust_name,acc_no,acc_type,balance);
System.out.println("Name of the customer: "+cust_name);
System.out.println("Account Number accno: "+acc_no);
System.out.println("Account type: "+acc_type);
System.out.println("Balance: "+balance);
}

void deposit(double amount)
{
this.balance  = this.balance + amount;
}

void withdrawal(double amount)
{
this.balance  = this.balance-amount;
imposepenalty();
System.out.println("The current balance is "+balance);
```

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```
this.balance  = this.balance-amount;
imposepenalty();
System.out.println("The current balance is "+balance);
}
void imposepenalty()
{
if(this.balance<min_bal)
{
this.balance=this.balance-penalty;
System.out.println("The balance amount is insufficient, the penalty imposted = 100Rs");
}
}

void display()
{
System.out.println("Balance is: " + this.balance);
}
}


class Sav_acct extends Account
{
Sav_acct(String cust_name,String acc_no,String acc_type,double balance)
{
super(cust_name,acc_no,acc_type,balance);
System.out.println("Name of the customer: "+cust_name);
System.out.println("Account Number accno: "+acc_no);
System.out.println("Account type: "+acc_type);
System.out.println("Balance: "+balance);
}

void deposit(double amount)
{
this.balance = this.balance+amount;
System.out.println("The Balance is "+this.balance);
}

void interest()
{
int rate=10,time=1;
float ci=(float)(this.balance*Math.pow(1+rate/100.0,time)-this.balance);
System.out.println("The interest amount added to balance is "+ci);
```

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```
int rate=10,time=1;
float ci=(float)(this.balance*Math.pow(1+rate/100.0,time)-this.balance);
System.out.println("The interest amount added to balance is "+ci);
this.balance=this.balance+ci;
System.out.println("The Balance is "+this.balance);
}

void withdrawal(double amount)
{
this.balance=this.balance-amount;
System.out.println("The current balance is "+balance);
}
void display()
{
System.out.println("Balance is: " +this.balance);
}
}



class Wk8prog2 {
public static void main(String[] args) {
Scanner xx = new Scanner(System.in);
double amount;
int flag = 0;
while(flag == 0){
System.out.println("Enter the type of Account:\n1:Current account\n2:Savings account\n3:Exit");
int choice=xx.nextInt();
switch(choice){
case 1:
System.out.println("\nCurrent account:\n");
System.out.println("Enter the name of account holder");
String f=xx.next();
System.out.println("Enter the account number");
String g=xx.next();
System.out.println("Enter the balance amount");
double h=xx.nextDouble();

Curr_acct c = new Curr_acct(f,g,"current",h);
int flag1 = 0;
while( flag1 == 0)
{
```

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```
double h=xx.nextDouble();

Curr_acct c = new Curr_acct(f,g,"current",h);
int flag1 = 0;
while( flag1 == 0)
{
System.out.println("Enter your choice\n1:Deposit amount\n2:Display Balance\n3:Withdraw\n4:Exit");
int choice1= xx.nextInt();
switch (choice1)
{
case 1:
System.out.println("Enter amount to be deposited:");
amount = xx.nextDouble();
c.deposit(amount);
break;
case 2:
c.display();
break;
case 3:
System.out.println("Enter amount you want to withdraw:");
amount = xx.nextDouble();
c.withdrawal(amount);
break;
default:
flag1 = 1;
}
}
break;

case 2:
System.out.println("\nSavings account:\n");
System.out.println("Enter the name of account holder");
String p=xx.next();
System.out.println("Enter the account number");
String q=xx.next();
System.out.println("Enter the balance amount");
double r=xx.nextDouble();
Sav_acct s = new Sav_acct(p,q,"Savings",r);
int flag2 = 0;
while(flag2 == 0)
{
System.out.println("Enter your choice\n1:Deposit amount\n2:Display Balance and Interest\n3:Withdraw\n4:Exit");
```

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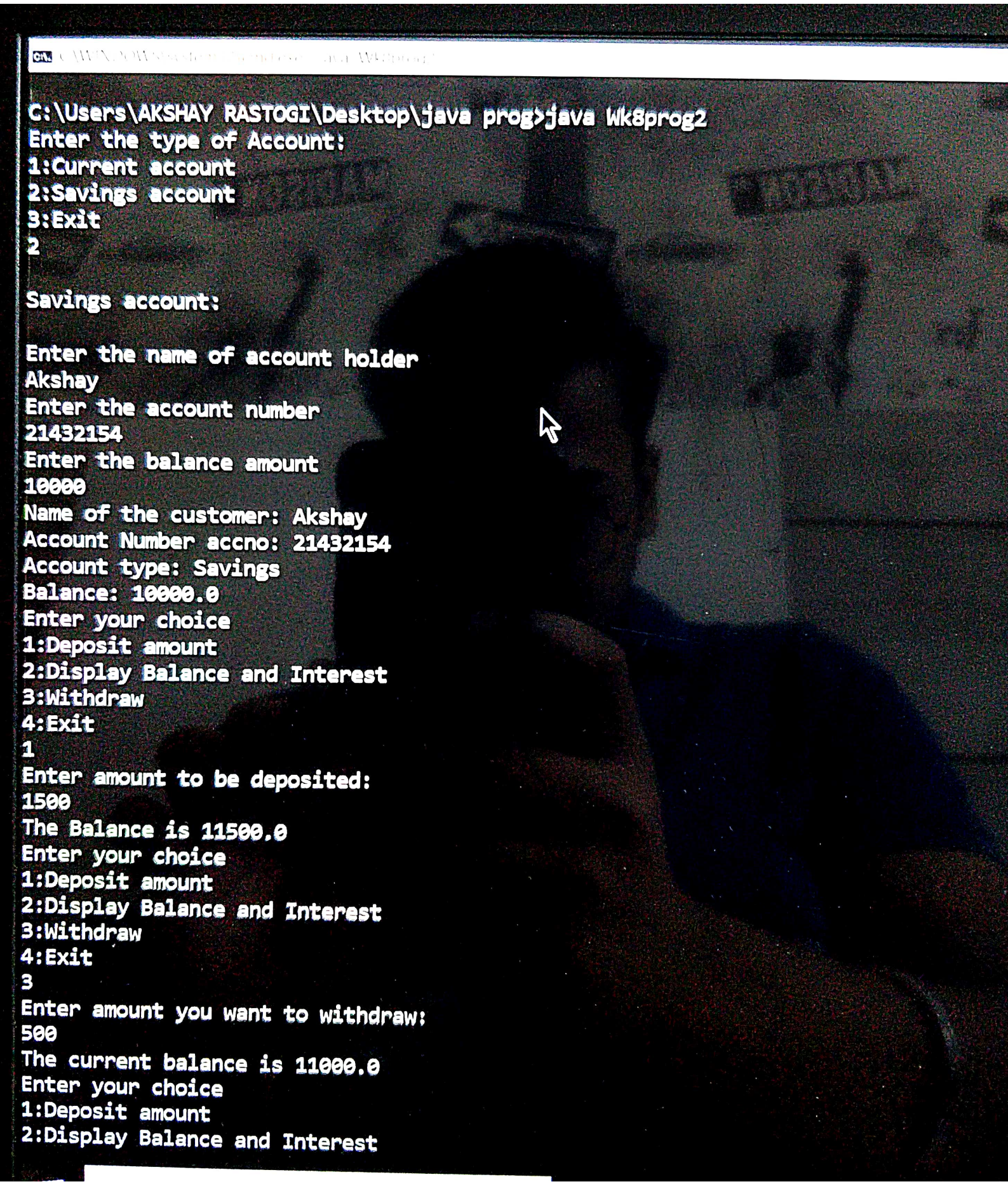
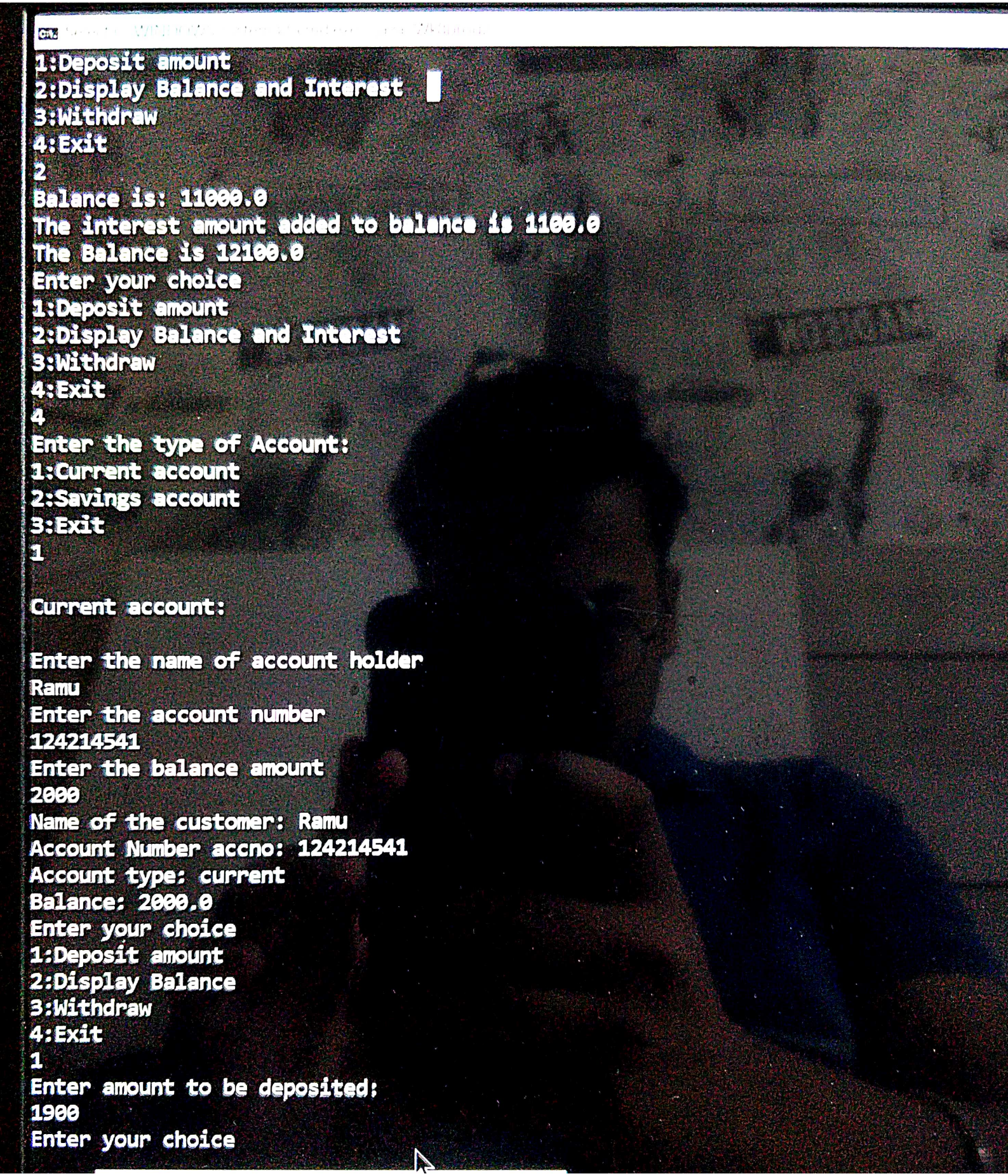
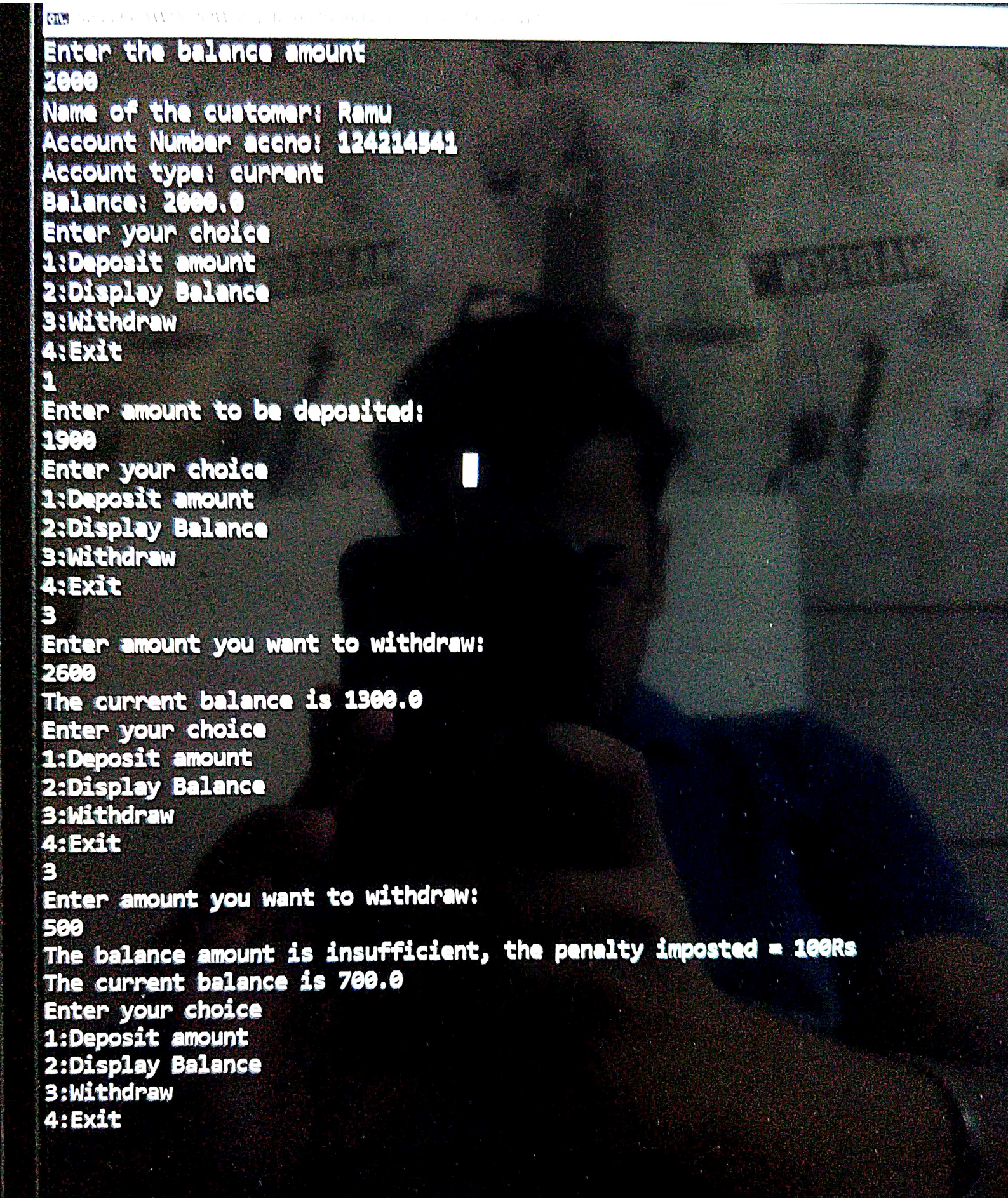
```
}
break;

case 2:
System.out.println("\nSavings account:\n");
System.out.println("Enter the name of account holder");
String p=xx.next();
System.out.println("Enter the account number");
String q=xx.next();
System.out.println("Enter the balance amount");
double r=xx.nextDouble();
Sav_acct s = new Sav_acct(p,q,"Savings",r);
int flag2 = 0;
while(flag2 == 0)
{
System.out.println("Enter your choice\n1:Deposit amount\n2:Display Balance and Interest\n3:Withdraw\n4:Exit");
int choice2 = xx.nextInt();
switch (choice2)
{
case 1:System.out.println("Enter amount to be deposited:");
amount = xx.nextDouble();
s.deposit(amount);
break;
case 2:
s.display();
s.interest();
break;
case 3:
System.out.println("Enter amount you want to withdraw:");
amount = xx.nextDouble();
s.withdrawal(amount);
break;
default:
flag2 =1;
}
}
break;
default:flag=1;
}
}
}
}
```



```
C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk8prog2
Enter the type of Account:
1:Current account
2:Savings account
3:Exit
2

Savings account:

Enter the name of account holder
Akshay
Enter the account number
21432154
Enter the balance amount
10000
Name of the customer: Akshay
Account Number accno: 21432154
Account type: Savings
Balance: 10000.0
Enter your choice
1:Deposit amount
2:Display Balance and Interest
3:Withdraw
4:Exit
1
Enter amount to be deposited:
1500
The Balance is 11500.0
Enter your choice
1:Deposit amount
2:Display Balance and Interest
3:Withdraw
4:Exit
3
Enter amount you want to withdraw:
500
The current balance is 11000.0
Enter your choice
1:Deposit amount
2:Display Balance and Interest
```



```
1:Deposit amount
2:Display Balance and Interest
3:Withdraw
4:Exit
2
Balance is: 11000.0
The interest amount added to balance is 1100.0
The Balance is 12100.0
Enter your choice
1:Deposit amount
2:Display Balance and Interest
3:Withdraw
4:Exit
4
Enter the type of Account:
1:Current account
2:Savings account
3:Exit
1

Current account:

Enter the name of account holder
Ramu
Enter the account number
124214541
Enter the balance amount
2000
Name of the customer: Ramu
Account Number accno: 124214541
Account type: current
Balance: 2000.0
Enter your choice
1:Deposit amount
2:Display Balance
3:Withdraw
4:Exit
1
Enter amount to be deposited:
1900
Enter your choice
```


Enter the balance amount
2000
Name of the customer: Ramu
Account Number accno: 124214541
Account type: current
Balance: 2000.0
Enter your choice
1:Deposit amount
2:Display Balance
3:Withdraw
4:Exit
1
Enter amount to be deposited:
1900
Enter your choice
1:Deposit amount
2:Display Balance
3:Withdraw
4:Exit
3
Enter amount you want to withdraw:
2600
The current balance is 1300.0
Enter your choice
1:Deposit amount
2:Display Balance
3:Withdraw
4:Exit
3
Enter amount you want to withdraw:
500
The balance amount is insufficient, the penalty imposted = 100Rs
The current balance is 700.0
Enter your choice
1:Deposit amount
2:Display Balance
3:Withdraw
4:Exit