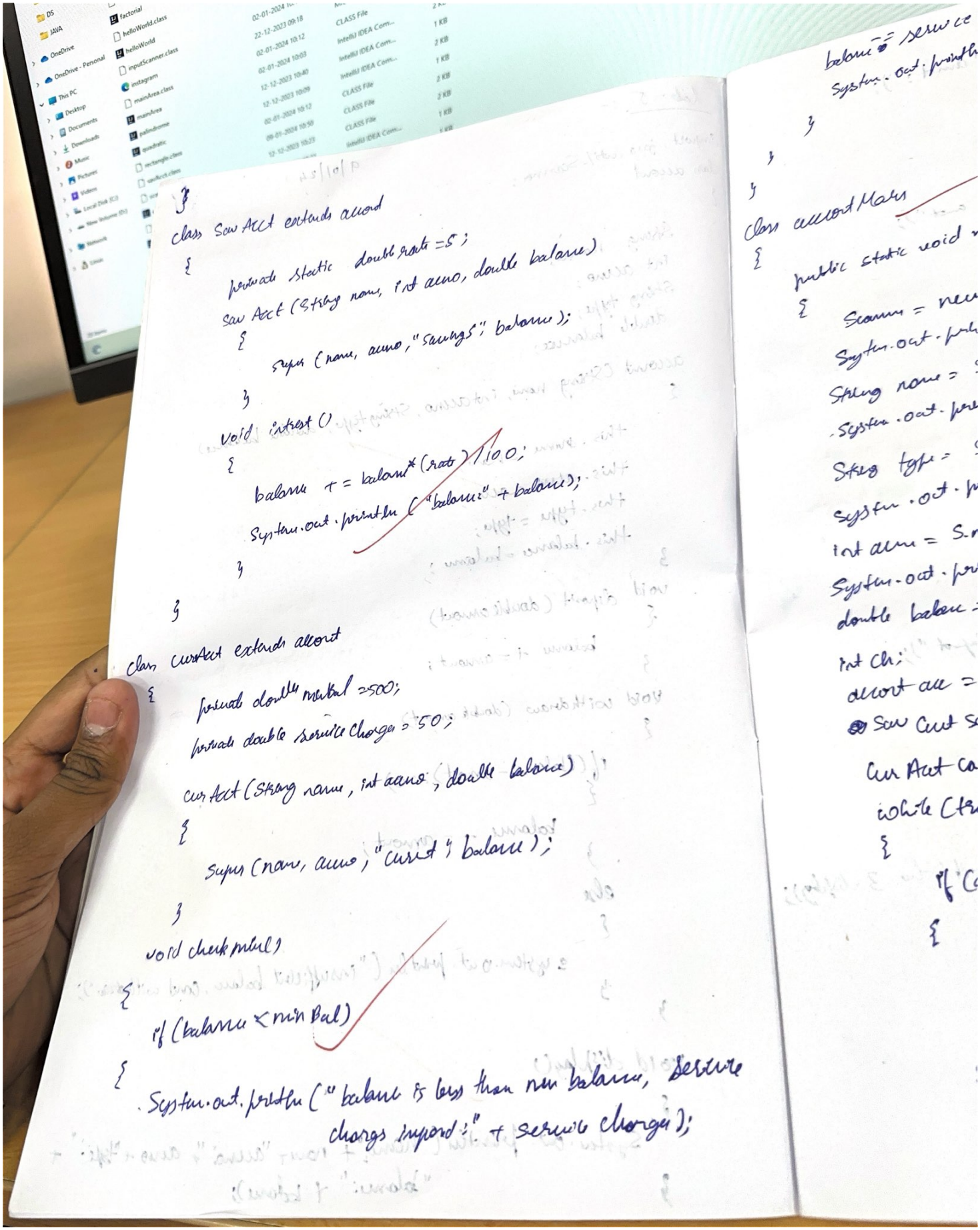
Lab - 5 :- 9/01/24

```
import java.util.Scanner;
class account
{
    String name;
    int accno;
    String type;
    double balance;

account(String name, int accno, String type, double balance)
{
    this.name = name;
    this.accno = accno;
    this.type = type;
    this.balance = balance;
}
void deposit(double amount)
{
    balance += amount;
}
void withdraw(double amount)
{
    if((balance - amount) >= 0)
    {
        balance -= amount;
    }
    else
    {
        System.out.println("insufficient balance. Cant withdraw");
    }
}
void display()
{
    System.out.println("name:" + name + "accno:" + accno + "type:" +
                       "balance:" + balance);
}
```



```
}
class SavAcct extends accnt
{
    private static double rate = 5;
    SavAcct (String name, int accno, double balance)
    {
        super (name, accno, "savings", balance);
    }
    void interest()
    {
        balance += balance * (rate) / 100;
        System.out.println ("balance:" + balance);
    }
}
class curAcct extends accnt
{
    private double minbal = 500;
    private double serviceCharge = 50;
    curAcct (String name, int accno, double balance)
    {
        super (name, accno, "curAct", balance);
    }
    void checkminbal()
    {
        if (balance < minBal)
        {
            System.out.println ("balance is less than min balance, Service
                charges imposed:" + serviceCharge);
```

```
balance -= service
System.out.println
}
}
class accountMain
{
public static void
{
    Scanner = new
    System.out.println
    String name =
    System.out.println
    String type =
    System.out.println
    int accno = S.n
    System.out.println
    double balance
    int ch;
    accnt acc =
    SavAcct sa
    CurAcct ca
    while (ch
    {
        if (c
        {
```

```
        balance = service charges;
        System.out.println("balance is:" + balance);
    }
}
}

class accountMain
{
    public static void main(String a[])
    {
        Scanner s = new Scanner(System.in);
        System.out.println("enter the name:");
        String name = s.next();
        System.out.println("enter the type (current/savings):");
        String type = s.next();
        System.out.println("enter the account number:");
        int accno = s.nextInt();
        System.out.println("enter the initial balance:");
        double balance = s.nextDouble();
        int ch;
        account ac = new ac(name, accno, type, balance);
        SavCurrent sa = new SavAcct(name, accno, balance);
        CurrAcct ca = new CurAcct(name, accno, balance);
        while(true)
        {
            if(ac.type.equals("savings"))
            {
                System.out.println("1.Menu\n1. deposit 2. withdraw
                                    3. compute interest 4. display");
                System.out.println("enter the choice:");
                ch = s.nextInt();
                switch(ch)
```

```
{
    Case 1: System.out.println("enter the amount:");
            amount1 = s.nextInt();
            sa.deposit(amount);
            break;

    Case 2: System.out.println("enter the amt");
            amount2 = s.nextInt();
            sa.withdraw(amt2);
            break;

    Case 3: sa.interest();
            break;

    Case 4: sa.display();
            break;

    Case 5: System.exit(0)

    default: system.out.println("invalid input");
             break;
    }
}
else
{
    System.out.println("\n Menu \n 1.deposit 2.withdraw 3.display");
    System.out.println("enter the choice");
    ch=sc.nextInt();
    switch(ch)
    {
```

```
Case 1: System.out.println("enter the amt:");
        amt1 = S.nextInt();
        ca.deposit(amt1);
        break;

Case 2: System.out.println("enter the amt");
        amt2 = S.nextInt();
        ca.withdraw(amt2);
        ca.checkmin();
        break;

Case 3: ca.display();
        break;

Case 4: System.exit(0);

default : System.out.println("invalid input");
    }
  }
}

}
```

→ Output:-

enter the name : sreenath

enter the acnt number:

2201

enter the initial balance:

5000

menu

1. deposit 2. withdraw 3. display

Enter choice:

2

Enter amount:

600

Menu

1. deposit 2. withdraw 3. display

Enter the choice

3

name: Pavan acno: 2201 type: curr balance 5600

09.01.24