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13MI8CS012

```java
import java.util.Scanner;

class Account
{

    private String name;
    private double account_no;
    private char account_type;
    private double balance;

    void getdata(char ch)
    {

        Scanner xx = new scanner(System.in);
        System.out.print("Enter the name of he customer: ");
        name = xx.next();
        xx.nextline();
        System.out.print("Enter he Account number of he customer: ");
        Account_no = xx.nextDouble();
        System.out.print("Enter he balance of he customer: ");
        balance = xx.nextDouble();
        Account_type = ch;

    }

    void updatebalance(double n)
    {

        balance = balance + x;
    }

    void update balance1(double x)
    {

        balance = balance - x;
    }

    double getbalance()
    {

        return balance;
    }
}
```

```java
void display belonce ()
{
    system.out.println ("The belonce is : " + belonce );
}
}
class soving Account extends Account {
    privte double interest_note;
    soving_Account()
    {
        scanner xx = new scanner (system.in);
        get-date ('s');
        system.out.paint ("Enter he interest note : ");
        interest_note = xx. next Double();
    }
    void getdeposit ()
    {
        scanner xx = new scanner (system.in);
        system.out. paint ("Enter he Amount to be deposited : ");
        double x = xx. nextDouble();
        updacte belonce (x);
    }
    void computeinterestc ()
    {
        double x = (getbelonce() * interest_note) / 100;
        updatebelonce (x);
        system.out.println ("The computed interest is : " + xx );
        display belonce ();
    }
    void withdrow ()
    {
        system.out.println ("Enter he Amount to be withdrawn : ");
        scanner xx = new scanner (system.in);
        double h = xx. next Double ();
        while (h > getbalonce () )
```

```java
{
    System.out.println("The Amount withdrawn is more then the
                        balance enter again: ");
    x = xx.nextDouble();
}
update balance1 (n);
display balance();
}
}

class current_Account extends Account {
    private double min_balance;
    private int cheque_book;
    current_Account()
    {
        Scanner xx = new Scanner(system.in);
        get data ('c');
        System.out.print(" Enter the minimum balance: ");
        min_balance = xx.nextDouble();
    }

    void getdeposit()
    {
        Scanner nn = new Scanner(system.in);
        System.out.print(" Enter the Amount to be deposited: ");
        double n = nn.nextDouble();
        update balance (n);
    }

    void issue check()
    {
        Scanner nn = new Scanner(system.in);
        System.out.print(" Enter the Amount of the check: ");
        double n = nn.nextDouble();
```

```java
if ( n > (get balance () - min _ balance ) )
{
    system.out.println("you have issued check of more then the
                 minimum balance & you have been charged
                 the penalty of 100 rupees");

    update balance (100);

}
else
{
    update balance ( n );
}
displey balance ();

}
void withdraw()
{
    system.out.print(" Enter the Amount to be withdrawn: ");
    scanner nn= new scanner ( system.in);
    double n = nn. nextDouble ();
    while ( n > (get balance () - min _ balance ) )
    {
        system.out.println("the Amount withdrawn is more then the
                       balance enter again : ");

        x = xx. nextDouble ();
    }
    update balance ( n );
    displey balance ();

}
}
class Account Main {
    public static void main (string args[])
    {
        scanner input = new scanner ( system.in);
        char ch;
        system.out.println(" Enter the type of Account you want
                                         ( c/s ): ");
```

```java
ch = input.next(). charAt(0);
if (ch == 's' || ch == 's')
{
    Saving Account s = new Saving Account();
    int h = 1;
    while (h != 0)
    {
        System.out.println("Enter o for exit : ");
        System.out.println("Enter 1 for deposit: ");
        System.out.println("Enter 2 for belae enquiry : ");
        System.out.println("Enter 3 to calculate interest: ");
        System.out.println("Enter 4 for withdraw: ");
        h = input.nextInt();
        if (h == 0)
            break;
        else if (h == 1)
        {
            s.getdeposit();
        }
        else if (h == 2)
        {
            get s.displcy belacce();
        }
        else if (h == 3)
        {
            s.computeinterest();
        }
        else if (h == 4)
        {
            s.withdraw();
        }
    }
}
```

```java
else
{
  current_Account s= new current_Account ();
  int h=1;
  while ( h!=0)
  {
     system.out. println(" Enter o for exit : ");
     system.out.println ("Enter 1 for deposit: ");
     system.out. println ("Enter 2 for balance enquiry : ");
     system.out. println ("Enter 3 to apply for cheque: ");
     system.out.println ("Enter 4 for withdraw: ");

     h= input. next Int ();

     if ( h== o)
     break;
     else if (h==1)
     {
        s.getdeposit();
     }
     else if (h==2)
     {
        s. display balance();
     }
     else if (h ==3)
     {
        s. issuecheck();
     }
     else if (h==4)
     {
        s.withdraw ();
     }
    }
   }
  }
```