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IBM19CS202
3-D

LABS (BANK)

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```
import java.util.*;
import java.lang.Math;
class Account {
        string name;
        int accno;
        char type;
        double balance;
        double dep;
        boolean chaq;
void get(char c) {
        type = c;
        if (c == 'S' || c == 's')
        chaq = False;
        else chaq = true;
    Scanner sc = new Scanner (System.in);
    System.out.println("Enter your name");
     name = sc.nextLine();
    System.out.println(" Enter Account Number");
    accno = sc.nextInt();
  System.out.println("Enter current Avail. balance ");
    balance = sc.nextDouble();
        }
void putd() {
        System.out.println(" Account details ");
        System.out.println("Name:" + name);
```

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```
System.out.println("Account number: "+acctno);
System.out.println("Balance "+balance);
}
void dep() {
    Scanner ss = new Scanner(System.in);
    System.out.println("Enter amount to be deposited.");
    dep = ss.nextDouble();
    balance = balance + dep;
    System.out.println("Amount has been deposited / balance updated");
}
void display() {
    System.out.println("Balance amount is "+balance);
}
void check() {
    if (cheq == false)
    System.out.println("cheque book facility is not available");
    else
    System.out.println("Cheque book facility is available");
}}
class Saving extends Account {
    double rate;
    double s_with;
    int n;
    int ch;
    double amt;
```

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```
double term;
double pr;

void ci() {
    Scanner ss = new Scanner (System.in);
System.out.println("Enter Principal deposit amount");
pr = ss.nextDouble();
System.out.println("Enter rate of interest");
rate ss.nextDouble;
System.out.println("Enter term(years));
term = ss.nextDouble();
System.out.println("Enter number of times intrest
                    in compound anually");
n = ss.nextInt();
amt = pr* Math.pow((1+(rate/100)), (n+term);
balance=amt;
System.out.println("Intrest Compound and deposited is
                    updated"); } }

void with_s() {
    Scanner ss = new Scanner (System.in);
System.out.println("Enter money to be withdrawn");
s_with = ss.nextDouble();
if (s_with > balance)
System.out.println("Insufficient balance");
else
```

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{ balance = balance - s_width;
System.out.println ("Money has been withdrawn and
balance has been updated "); } }
class current extends Account {
    double c_with;
    double pen;
    double min;
  Current() {
        pen=100;
        min=500;
        }
void with_c() {
      Scanner xx = new Scanner (System.in);
System.out.println (" Enter Amount to be withdrawn");
c_with = xx.nextDouble();
  if (c_with > Balance)
    { system.out.println ("Insuff. Funds!");
return; }
else
  { balance = balance = c_with;
  System.out.println ("Amount has been withdrawn
and Balance has been updated"); }
if ( balance < min) {
  System.out.println("Balance is below min threshold,
service penalty charge = 100/-");
```

```
System.out.println("Due to insuffrent funds, penalty charge will
    be deducted from account after replenishing, current
balance is "+ balance);
    if (balance<pen){
System.out.println("Due to insuffient funds, penalty charge
    will be deducted from account after
replinshing. current balane is "+ balane);
    else {
        balance = balance = pen;
    System.out.println("Penalty charge has been deducted
    from balance "+ balanel);}}}
class labs{
    public static void main (string ssst[]) {
        int cch, chh;
        Scanner sx = new Scanner(System.in)
System.out.println("-----Welcome----");
System.out.println("Savings or current 1-saving 2-current");
int ch = sx.nextInt();
if (ch==1) { switch (chh) {
                case 1:
                s.dep();
                break;
                case 2:
                s.ci();
                break;
                case 3:
                s.withSC();
                break;
```

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```
case 4:
s.display();
break;

case 5:
s.check();
break;

case 6:
break;

default:
System.out.println("wrong option");
break;
}
}while(ch!=6);}

else if(ch==2){
    Current cr= new Current();
    cr.get('c');
  do{
    System.out.println("1.Deposit money\n2.Cheque Book
\n3.withdraw money\n4.Display Balance \n5.Exit");
    ch=sx.nextInt();
    switch(ch){
        case 1:
        cr.dep();
        break;

        case 2:
        cr.check();
        break

        case 3:
        cr.with_c();
        break;
```

```
case4:
cr.display();
break;

case 5:
break;

default:
System.out.println("Wrong Option.");
break;
}
} while (cch!=5);
} else System.out.println("wrong!");
}
}
```

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