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850 //Bank Account
851 import java.util.*;
852 class Account{
853     String name;
854     double acc_no,bal;
855     int type;
856     Account(String n,double a,int t,double b){
857         name=n;
858         acc_no=a;
859         type=t;
860         bal=b;
861     }
862     void display(String name,double acc_no,int type,double bal){
863         System.out.println("Name : "+name);
864         System.out.println("Account No. : "+acc_no);
865         System.out.println("Type of account : "+type);
866         System.out.println("Balance : "+bal);
867     }
868 }
869 class Sav extends Account{
870     double w,i;
871     Sav(String n,double a,int t,double b,double wd,double in){
872         super(n,a,t,b);
873         w=wd;
874         i=in;
875     }
876     double wdbal(double bal, double w){
877         System.out.println("Withdrwal Amount : "+w);
878         bal=bal-w;
879         System.out.println("Remaining balance is : "+bal);
880         return bal;
881     }
882     double interest(double bal){
883         bal=bal+(bal*0.05);
884         System.out.println("Updated balance after interest is : "+bal);
885         return bal;
886     }
887 }
888 class Current extends Account{
889     double p;
890     Current(String n,double a,int t,double b,double pe,double in){
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891     super(n,a,t,b);
892     p=pe;
893 }
894 double pen(double bal){
895     System.out.println("Penalty is imposed of 500 Ruppees as balance is below 1000 Ruppees");
896     bal=bal-500;
897     System.out.println("Remaining balance is : "+bal);
898     return bal;
899 }
900 }
901 class Series{
902     public static void main(String[] args){
903         Scanner in = new Scanner(System.in);
904         String name="";
905         double acc_no=0,bal=0,w=0,i=0,p=0;
906         int type=0,j=0,k=0,z=0;
907         Account a=new Account(name,acc_no,type,bal);
908         Sav as=new Sav(name,acc_no,type,bal,w,i);
909         Current c=new Current(name,acc_no,type,bal,p,i);
910         System.out.println("Name : ");
911         name=in.next();
912         System.out.println("Account No. : ");
913         acc_no=in.nextDouble();
914         System.out.println("Account type (1:Savings Account\t2:Current Account) : ");
915         type=in.nextInt();
916         System.out.println("Enter initial amount in account : ");
917         bal=in.nextDouble();
918         a.display(name,acc_no,type,bal);
919         while(z!=8){
920             if(type==1){
921                 System.out.println("Interest applied is 5%");
922                 bal=as.interest(bal);
923                 System.out.println("Do you want to withdrawl (1:Yes 2:No)?");
924                 j=in.nextInt();
925                 if(j==1){
926                     System.out.println("Enter withdrwal amount : ");
927                     w=in.nextDouble();
928                     bal=as.wdbal(bal,w);

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929     }
930 }
931 else if (type==2) {
932     System.out.println("Do you want to withdrawl (1:Yes 2:No)?");
933     k=in.nextInt();
934     if (k==1) {
935         System.out.println("Enter withdrwal amount : ");
936         w=in.nextDouble();
937         bal=as.wdbal(bal,w);
938     }
939     if (bal<1000) {
940         bal=c.pen(bal);
941     }
942 }
943 else{
944     System.out.println("You havent entered proper choice!!!");
945 }
946 System.out.println("8:Exit\tAny other number:Continue");
947 z=in.nextInt();
948 }
949 }
950 }
951 }
```


C:\Users\Shreshtha Aggarwal\Desktop\java>javac Series.java

C:\Users\Shreshtha Aggarwal\Desktop\java>java Series

Name :
asdf
Account No. :
15482
Account type (1:Savings Account 2:Current Account) :
1

Enter initial amount in account :
2100

Name : asdf
Account No. : 15482.0
Type of account : 1
Balance : 2100.0
Interest applied is 5%
Updated balance after interest is : 2205.0
Do you want to withdrawl (1:Yes 2:No)?

1
Enter withdrwal amount :
300

Withdrwal Amount : 300.0
Remaining balance is : 1905.0
8:Exit Any other number:Continue
8

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