```java
impart java. util. Scanner;
impart java. lang. Math;
class Account
{
Scanner ss= new Scannur (System.in);
String acc_name;
String acc_no;
int acc-type;
double balance;
Vord Cruate Account ()
{
System.out.psunth ("Enter the Deals of the new
account :");
System.out.printIn (" Name : ");
acc-name = ss.next();
System.out.printIn (" Idial Account number:"),
acc-no = ss.next();
if (acc-type == 1)
{
System.out.println ("Enter the first Deposite
balance=ss.nexd Double: value");
System.out.println (" thank you for creating
an Account");
}
dse
{
System.out.println (" Enter the Deposite value
(above 5000 ): ");
balance = ss.next Double();
System.out.psunth ("thank you for creating
In You will shortly receive your chique
Book.");
}
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{
return acc_no;
}
void Display()
{
System.out.println ("the Account Details are
              given as follows : ");
System.out.println ("Name : "+ acc-name);
System.out.println (" Account Number : "+accng
if (acc_type == 1)
System.out.println (" Account type: Current
Saving Account ");
else
System.out.println (" Account type: Current
Account ");
}
}

class Sav_Acct extends Account.
{
void withdraw ()
{
double amount;
System.out.println ("Enter the Amount to be
written:");
amount = ss. NextDouble;
balance -= amount;
}
void deposite ()
{
double amount;
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    }

    void compound_interest()
    {
        byte years_of_dep;
        double interest;
        System.out.println("Enter the number of
        years for compound interest:");
        years_of_dep = ss.nextByte();
        interest = (balance * Math.pow(1+(hs/100),
        years_of_dep)) - balance;
        System.out.println("the compound interest
        is:"+ interest);
    }
}

class Curr_Acct extends Account
{
    void withdraw()
    {
        double amount;
        System.out.println("Warning: A minimum of
        5000 balance must be maintained!! if
        failed, a Penalty of Rs 100 will be imposed
        ");
        System.out.println("Enter the Amount to be
        withdrawn:");
        amount = ss.nextDouble();
        balance -= amount;
        penalty check();
    }

    void deposite()
    {
        double amount;
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amount = ss.nextDouble();
balance t = amount;
}

void penalty check ()
{
if (balance < 5000)
{
int pen = 100;
System.out.println ("the balance is less
than 5000 a penalty of Rs 100 is imposed."
);
balance - = pen;
}
}
}

class Bank
{
public static void main(String args[])
{
Sav_Acct S_acct [] = new Sav_Acct [10];
Curr_Acct C_acct [] = new Curr_Acct [10];
Scanner ss = new Scanner(System.in);
String acctno;
int ch, i = 0, j = 0;
while (true)
{
System.out.println ("Welcome to the Bank \n");
System.out.println ("Enter the action to be
performed: ");
System.out.println ("1: Create a Savings
Account \n 2: Create a Current Account");
System.out.println ("3: Deposit \n 4: with
```
Balance \n 6: Check

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System.out.println ("Enter your choice:")
ch = ss.nextInt()
switch(ch)
{
    case 1 : s.acd[i] = new Sav_Acct();
             s.acct[i].acc.type = 7;
             s_acct[i].Create Account();
             i++;
             Break;
    case 2 : C_acct[j] = new Cuor_Acct();
             C_acct[j].acc-type = 2;
             C_acct[j] = Create Account();
             j++;
             Break;
    case 3 : System.out.println ("Enter the
             account number : ");
             acctno = ss.next();
             for(int k=0; k < j; k++)
             {
                 if (acctno.equals(C_acct[k].getAccno
                 ()))
                 {
             System.out.println("this Account is a Saving
             Account");
                 S_acct[k].deposit();
                 }
             }
             break;
    case 4 : System.out.println ("Enter the acc-
             nt number : ");
             acct no = ss.next();
             for(int k=0; k < j; k++)
             {
             if (
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System.out.println(" This Account is a (Current Account
     :");
(c_acct[k].withdraw();
}
}

for(int k=0; k>i; k++)
{
if(acct no.equals(s-acct[k].getAccount No()))
{
System.out.println(" thisAccount is a   Saving Account
     :");
s-acct[k].withdraw();
}
}

break;
Case 5: System.out.println("Enter the account.
    number :");
acct no = ss.next();
for(int k=0; k>j; k++)
{
if(acct_no.equals(c-acct[k].getAccounts No()))
(c_acct[k].Display();
{
for(int k=0; k<i; k++)
{
if(acctno.equals(s-acct[k].getAccounts No()))
s-acct[k].Display();
}
break;
case 6: System.out.println("Enter the account
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```java
if (act no. equals ( C. acct[k]. getAccounts No())
System.out.println ("this is a Current account.
In the account does not provide interest. ")
}

for (int k=0; k<i; k++)
{
  if (act no. equals ( S. acct[k]. get Account No()))
  S_acct[K]. compound_interest();
}

break;
}
}
}.
}
```