WEEK 8

IBM19CS045
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```
import java.util.Scanner;
import java.lang.Math;
class Account
{ String name, type, accno;
  double balance;
  void deposit()
  { Scanner get = new Scanner(System.in);
    double depo;
    system.out.println("Enter the deposit");
    depo = get.nextDouble();
    balance = balance + depo;
  }
void withdraw()
{ Scanner get = new Scanner(System.in);
  double withdraw;
  System.out.println("Enter the amount to withdraw:(<" +
  balance + ")");
  withdraw = get.nextDouble();
  balance = balance - withdraw;
  System.out.println("Balance : "+balance);
}
}
class Curr_acct extends Account
{ boolean cheque = true; double intr = 7;
  void display()
  { System.out.println("Balance : "+ balance); }
  void create()
  { Scanner get = new Scanner(System.in);
    System.out.println("Name :");
    name = get.next();
    type
    accno = "current";
    System.out.println("Account No: ");
    accno = get.next();
    System.out.println("Balance :");
    balance = get.nextDouble();
  }
```

```
void calcint()
{ double interest;
  Scanner get = new Scanner(System.in);
  System.out.println("Enter time : ");
  int time;
  time = get.nextInt();
  interest = balance * Math.pow(1+ intr/100), time) - balance;
  system.out.println("Interest : "+ interest);
  balance = balance + interest;
  system.out.println("Balance : "+balance);
}
}
class Bank
{ public ~~get = new Scanner(System.in);~~ static void main(String args[])
  { Scanner get = new Scanner(System.in);
    String type;
    Sav_acct accs = new Sav_acct();
    Curr_acct accr = new Curr_acct();
    System.out.println("Enter type of account : (current/savings)");
    type = get.next();
    if(type.equals("current"))
      accs.create();
    else if(type.equals("current"))
      accr.create();
    int ch;
    do
    { System.out.println("\n1. Deposit\n2. Display Balance\n3. Deposit
      Interest\n4. Withdraw\n5. Check\n6. Cheque Book\n7. Exit");
      switch(ch)
      { case 1 : if(type.equals("savings"))
                   accs.deposit();
                 else
                   accr.deposit();
                 break;
        case 2 : if(type.equals("savings");
                   accs.displine();
                 else
                   accr.displine();
                 break;
```

```
case 3 : if (type.equals("savings"))
          acc.calcInt();
         else
          System.out.println("This account does not have this
          provision");
         break;
case 4 : if (type.equals("savings"))
          acc.withdraw();
         else
          acc.withdraw();
         break;
case 5 : if (type.equals("savings"))
         System.out.println("This account does not have this
         provision");
         else
          acc.checker();
         break;
case 6 : if (type.equals("savings"))
          System.out.println("This account does not have this provision");
         else
          System.out.println("This account does have this provision");
          break;
default : if (ch1 = 7)
            System.out.println("Enter valid option");
}
}while ch1 = 7);
}
```