```
public class BankAccount {
   private String accountNumber;
   private double balance;

   public String getAccountNumber() {
      return accountNumber;
   }

   public void setAccountNumber(String accountNumber) {
      this.accountNumber = accountNumber;
   }

   public double getBalance() {
      return balance;
   }

   public void setBalance(double balance) {
      this.balance = balance;
   }


   public abstract double calInterest();
}

public class SavingsAccount extends BankAccount {
   private static final double SAVINGS_INTEREST_RATE = 0.12;


   @Override
   public double calInterest() {
      return getBalance() * SAVINGS_INTEREST_RATE;
   }
}


public class CheckingAccount extends BankAccount {
   private static final double CHECKING_INTEREST_RATE = 0.02;


   @Override
   public double calInterest() {
      return getBalance() * CHECKING_INTEREST_RATE;
   }
}
public class Main {
   public static void main(String[] args) {
      SavingsAccount savingsAccount = new SavingsAccount();
      savingsAccount.setBalance(20000000);
```

```
        double savingsInterest = savingsAccount.calculateInterest();

        CheckingAccount checkingAccount = new CheckingAccount();
        checkingAccount.setBalance(1000000);
        double checkingInterest = checkingAccount.calculateInterest();

        System.out.println("Interest for Savings Account: $" + savingsInterest);
        System.out.println("Interest for Checking Account: $" + checkingInterest);
    }
}
```