```java
package com.mycompany.bankobj;

public abstract class BankAccount
{
    private float balance;
    private int accountnumber;

    public BankAccount(float balance,int accountnumber)
    {
        this.balance=balance;
        this.accountnumber=accountnumber;
    }

    //setter methods

    public void setbalance(float balance) {
        this.balance = balance;
    }

    public void setaccountnumber(int accountnumber) {
        this.accountnumber =accountnumber;
    }

    //getters methods

    public float getbalance() {
        return balance;
    }

    public int getaccountnumber() {
```

```java
        return accountnumber;
    }

    public abstract float calculateInterest();
}
package com.mycompany.bankobj;

public class SavingAccount extends BankAccount
{
    public SavingAccount(int accountnumber,float balance)
    {
        super( balance,accountnumber);
    }

    @Override
    public float calculateInterest()
    {
        return getbalance() * 0.12f;
    }
}
package com.mycompany.bankobj;
public class CheckingAccount extends BankAccount
{
    public CheckingAccount(int accountnumber,float balance)
    {
        super(balance,accountnumber);
    }

    @Override
```

```java
    public float calculateInterest()
    {
        return (float) (getbalance()*0.02);
    }
}
```