Exercise 1

Given the following `CurrencyConverter` class which handles the exchange between a foreign currency and US dollars.

```java
public class CurrencyConverter {
    private double exchangeRate;
    private double commissionRate;
    private int largeAmount;

      public CurrencyConverter(double er , double cr){
          exchangeRate = er;
          commissionRate = cr;
       }

      public double fromUSDollar(double dollar){
          if (dollar >= largeAmount)
     return (dollar * exchangeRate * (1-commissionRate*0.5));      else
              return (dollar * exchangeRate * (1-commissionRate));
       }
       public double toUSDollar(double foreignMoney){
        if (foreignMoney/exchangeRate >= largeAmount)
     return (foreignMoney/exchangeRate*(1-commissionRate*0.5));     else
              return (foreignMoney/exchangeRate*(1-commissionRate));
       }
       public void setExchangeRate(double
rate){
          exchangeRate = rate;
       }
       public double
getExchangeRate(){
          return exchangeRate;
       }
       public void setCommissionRate(double
rate){
          commissionRate = rate;
       }
       public double
getCommissionRate(){
          return commissionRate;
       }
```

```
    public void setLargeAmount(int amount){
        largeAmount = amount;
    }

    public int getLargeAmount(){
        return largeAmount;
    }
}
```

Write a `TestCurrencyConverter` class, which tests the `CurrencyConverter` class by performing the following operations:

1. Instantiate two `CurrencyConverter` object with the following attributes:

	exchangeRate	**commissionRate**
yenConverter	115.7	0.0005
euroConverter	0.9927	0.0003

2. Set `largeAmount` to 50000.

3. Use the `yenConverter` to convert 1500000 yens to US dollars.

4. Use the `yenConverter` to convert from US$2000 to yens.

5. Set the exchange rate of euro to 0.9881.

6. Use the `euroConverter` to convert 170000 euros to US$.

7. Use the `euroConverter` to convert from US$20000 to euros.

Sample Output

```
1500000 yens = US$ 12958.0812445981
US$ 2000  = 231284.30000000002 yens


170000 euros = US$ 172021.55652261918 US$
20000  = 19756.0714 euros
```

END.