CURRENCY CONVERTOR AND MONEY TRANSFERING APPLICATION

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GitHub link : gitHub_Currencyconvertor

DESCRIPTION

The application CURRENCY EXCHANGE is completely designed using core java concepts and it contains different methods for each operation , here we have created new method for each type of the conversion and also separate method for money transfer by collecting the details from the user.

In currency exchange methods first, we will get the input from user for which currency we should convert and alongside of the amount. Amount has a limit of 10000 and if it exceeds the value, it will display limit exceeded or if we enter the amount value other than numeric values it will display enter the correct value.

Currency exchange part consists of the input amount taken from the user and will display the current value of the exchangeable currency and initially it will calculate the amount that can be get by exchange and later next step it will calculate the commission amount and will display the exchangeable after subtracting the commission/tax amount from it.

Money transfer works by collecting the pre-requisites from the user like the name of the account holder, account number, bank name, branch name, IFSC code and the amount to be transferred.

By collecting these values and validating them in the system it will start the process of transferring the amount from exchange centre to persons bank account. At last of the process if the transfer is successful, it gives a message Monay transferred.

TOOLS USED

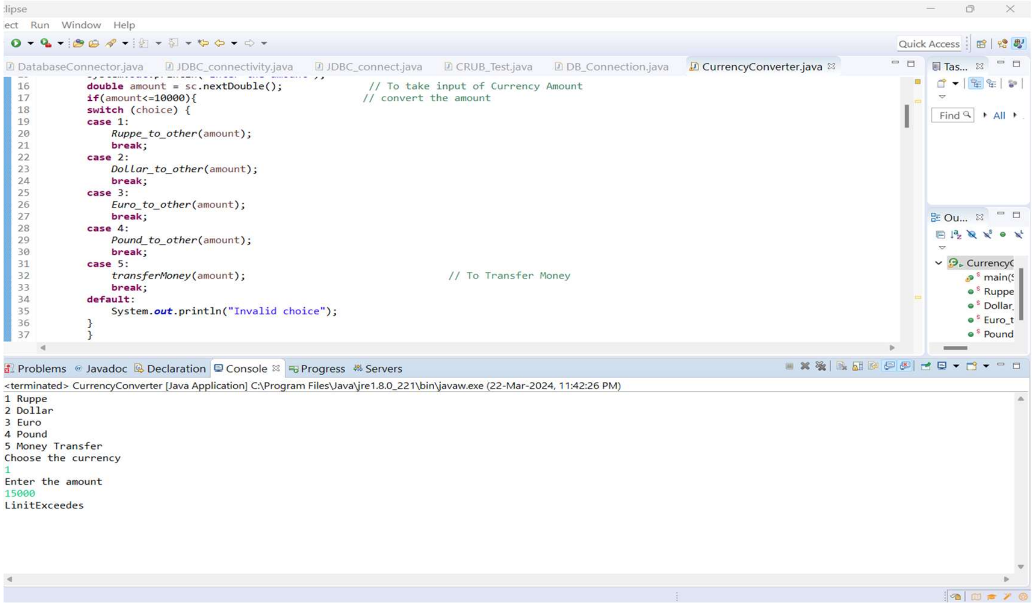
Language : Java

Compiler : Eclipse

OUTPUTS

When the input value exceeds the limit, it gives output as “LimitExceeds”

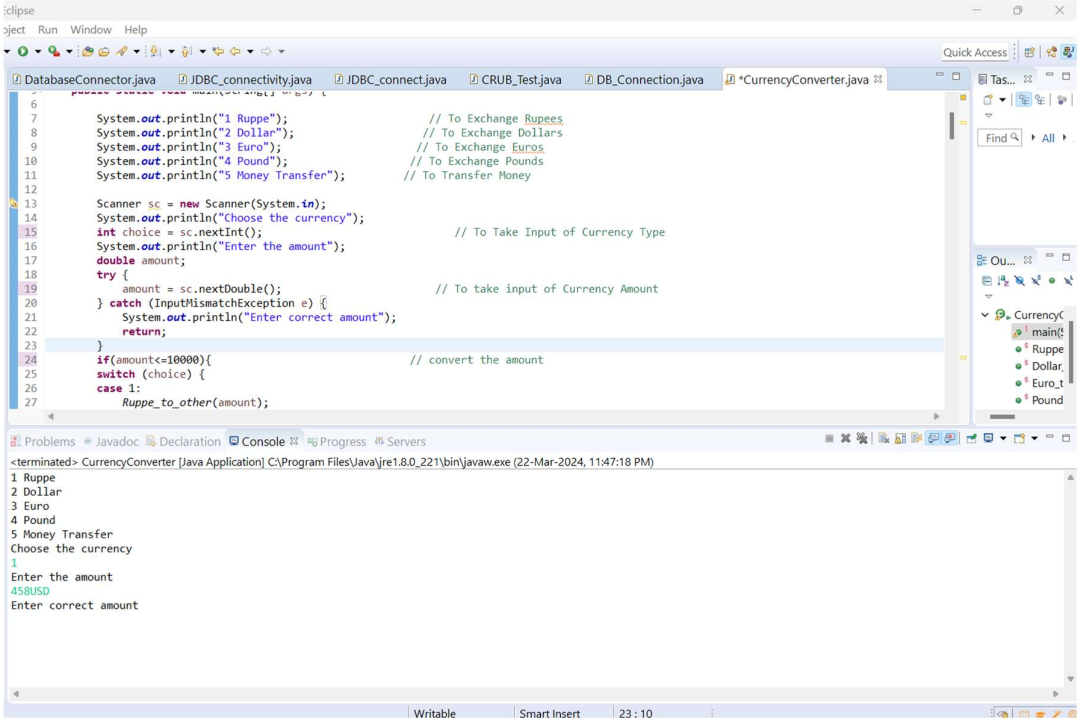
Here the limit is 15000 which is greater than declared limit.



```java
        double amount = sc.nextDouble();              // To take input of Currency Amount
        if(amount<=10000){                           // convert the amount
        switch (choice) {
        case 1:
            Ruppe_to_other(amount);
            break;
        case 2:
            Dollar_to_other(amount);
            break;
        case 3:
            Euro_to_other(amount);
            break;
        case 4:
            Pound_to_other(amount);
            break;
        case 5:
            transferMoney(amount);                               // To Transfer Money
            break;
        default:
            System.out.println("Invalid choice");
        }
        }
```

```
<terminated> CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:42:26 PM)
1 Ruppe
2 Dollar
3 Euro
4 Pound
5 Money Transfer
Choose the currency
1
Enter the amount
15000
LinitExceedes
```

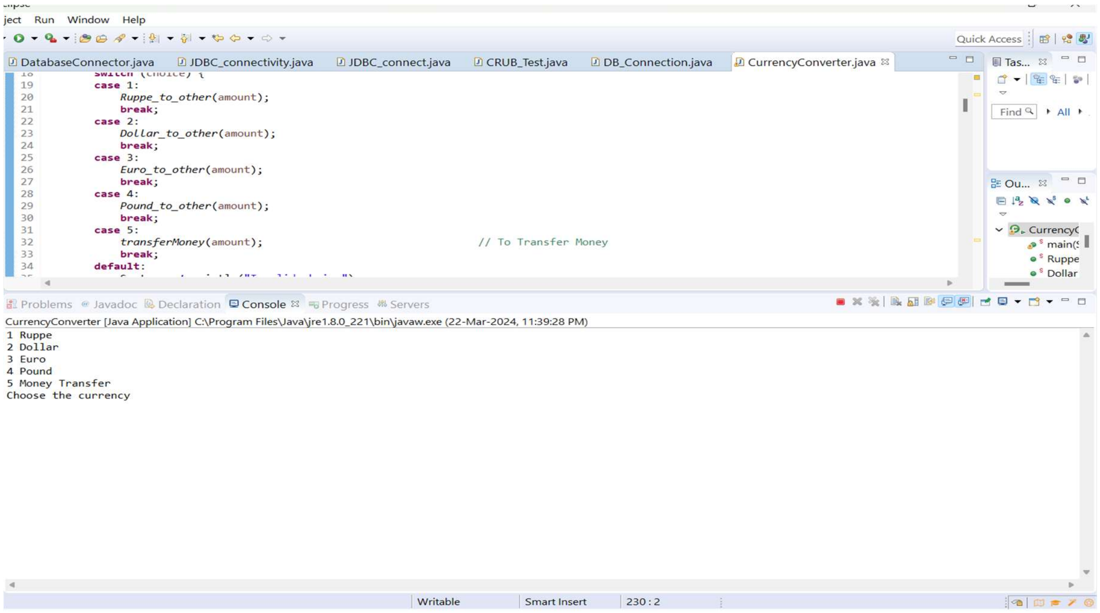
Here the value we entered is other than numeral so its giving enter the correct amount



```java

        System.out.println("1 Ruppe");                        // To Exchange Rupees
        System.out.println("2 Dollar");                      // To Exchange Dollars
        System.out.println("3 Euro");                       // To Exchange Euros
        System.out.println("4 Pound");                     // To Exchange Pounds
        System.out.println("5 Money Transfer");          // To Transfer Money

        Scanner sc = new Scanner(System.in);
        System.out.println("Choose the currency");
        int choice = sc.nextInt();                                // To Take Input of Currency Type
        System.out.println("Enter the amount");
        double amount;
        try {
            amount = sc.nextDouble();                          // To take input of Currency Amount
        } catch (InputMismatchException e) {
            System.out.println("Enter correct amount");
            return;
        }
        if(amount<=10000){                                 // convert the amount
        switch (choice) {
        case 1:
            Ruppe_to_other(amount);
```

```
<terminated> CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:47:18 PM)
1 Ruppe
2 Dollar
3 Euro
4 Pound
5 Money Transfer
Choose the currency
1
Enter the amount
458USD
Enter correct amount
```

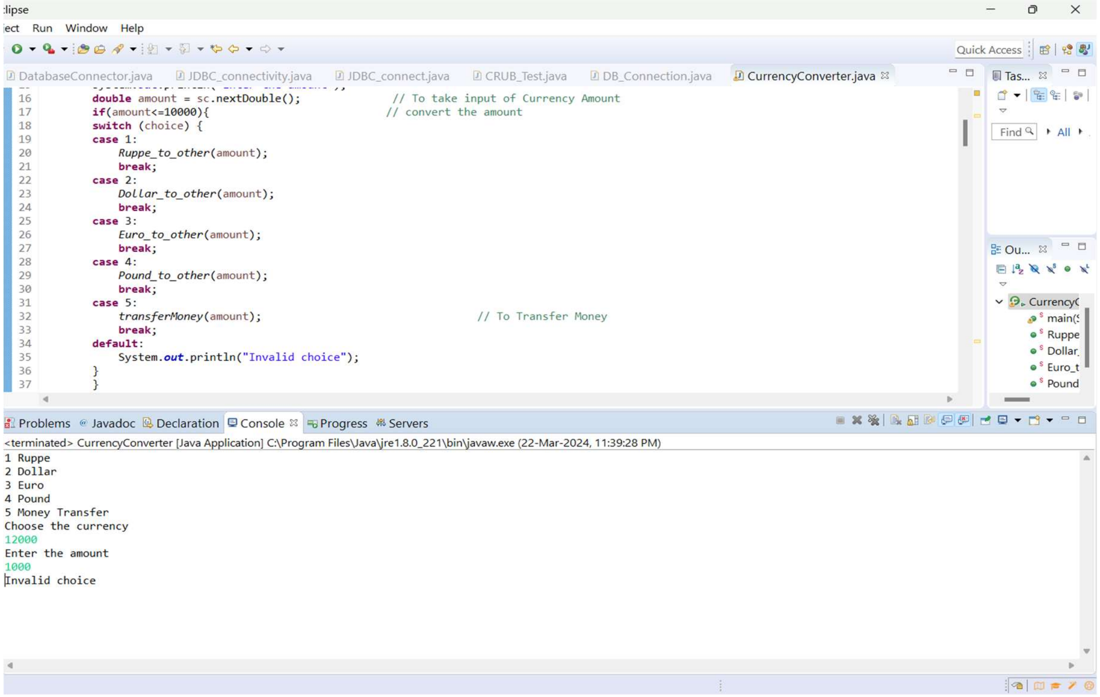
Selecting the valid testcases for conversion or transfer of currency



```
        switch (choice) {
        case 1:
            Ruppe_to_other(amount);
            break;
        case 2:
            Dollar_to_other(amount);
            break;
        case 3:
            Euro_to_other(amount);
            break;
        case 4:
            Pound_to_other(amount);
            break;
        case 5:
            transferMoney(amount);                          // To Transfer Money
            break;
        default:
```

```
CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:39:28 PM)
1 Ruppe
2 Dollar
3 Euro
4 Pound
5 Money Transfer
Choose the currency
```

If we enter other than above cases it will return Invalid case

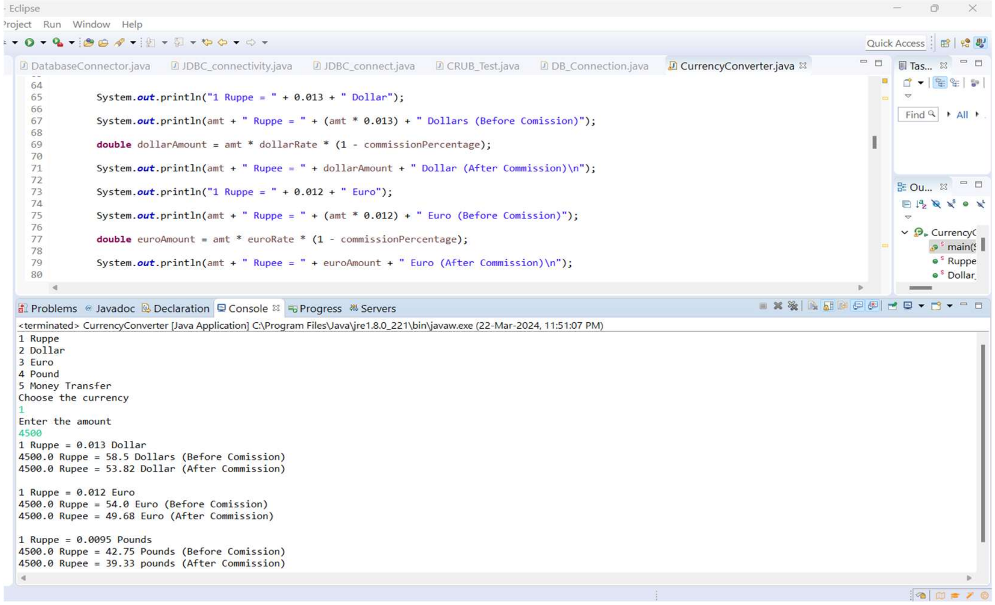


```
        double amount = sc.nextDouble();            // To take input of Currency Amount
        if(amount<=10000){                         // convert the amount
        switch (choice) {
        case 1:
            Ruppe_to_other(amount);
            break;
        case 2:
            Dollar_to_other(amount);
            break;
        case 3:
            Euro_to_other(amount);
            break;
        case 4:
            Pound_to_other(amount);
            break;
        case 5:
            transferMoney(amount);                          // To Transfer Money
            break;
        default:
            System.out.println("Invalid choice");
        }
        }
```

```
<terminated> CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:39:28 PM)
1 Ruppe
2 Dollar
3 Euro
4 Pound
5 Money Transfer
Choose the currency
12000
Enter the amount
1000
Invalid choice
```

Currency exchange outputs for all cases

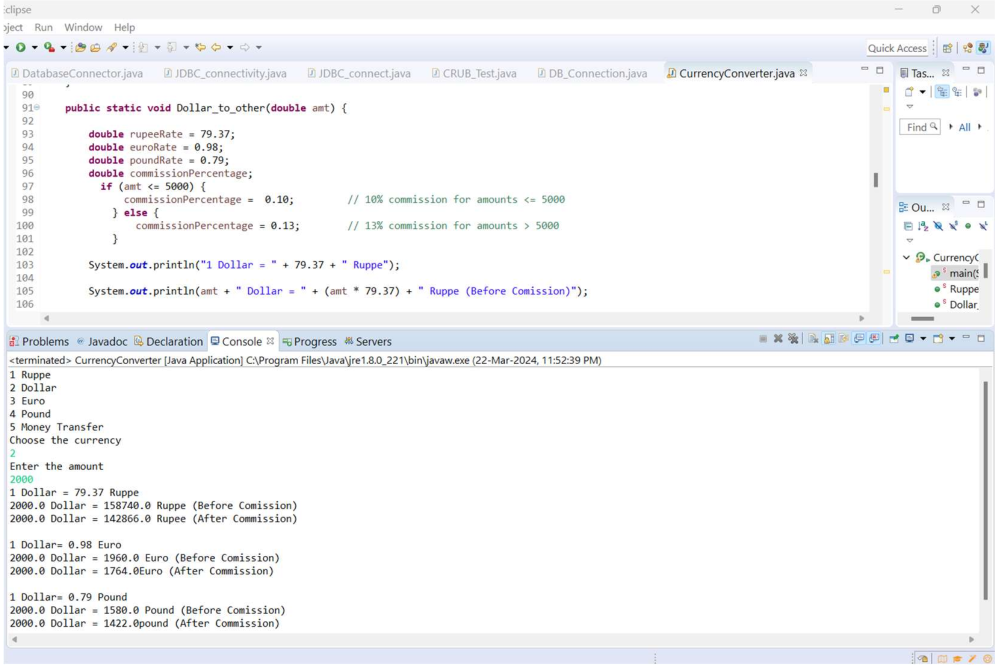
Rupees to others



```java
        System.out.println("1 Ruppe = " + 0.013 + " Dollar");

        System.out.println(amt + " Ruppe = " + (amt * 0.013) + " Dollars (Before Comission)");

        double dollarAmount = amt * dollarRate * (1 - commissionPercentage);

        System.out.println(amt + " Rupee = " + dollarAmount + " Dollar (After Commission)\n");

        System.out.println("1 Ruppe = " + 0.012 + " Euro");

        System.out.println(amt + " Ruppe = " + (amt * 0.012) + " Euro (Before Comission)");

        double euroAmount = amt * euroRate * (1 - commissionPercentage);

        System.out.println(amt + " Rupee = " + euroAmount + " Euro (After Commission)\n");

```

```
<terminated> CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:51:07 PM)
1 Ruppe
2 Dollar
3 Euro
4 Pound
5 Money Transfer
Choose the currency
1
Enter the amount
4500
1 Ruppe = 0.013 Dollar
4500.0 Ruppe = 58.5 Dollars (Before Comission)
4500.0 Rupee = 53.82 Dollar (After Commission)

1 Ruppe = 0.012 Euro
4500.0 Ruppe = 54.0 Euro (Before Comission)
4500.0 Rupee = 49.68 Euro (After Commission)

1 Ruppe = 0.0095 Pounds
4500.0 Ruppe = 42.75 Pounds (Before Comission)
4500.0 Rupee = 39.33 pounds (After Commission)
```

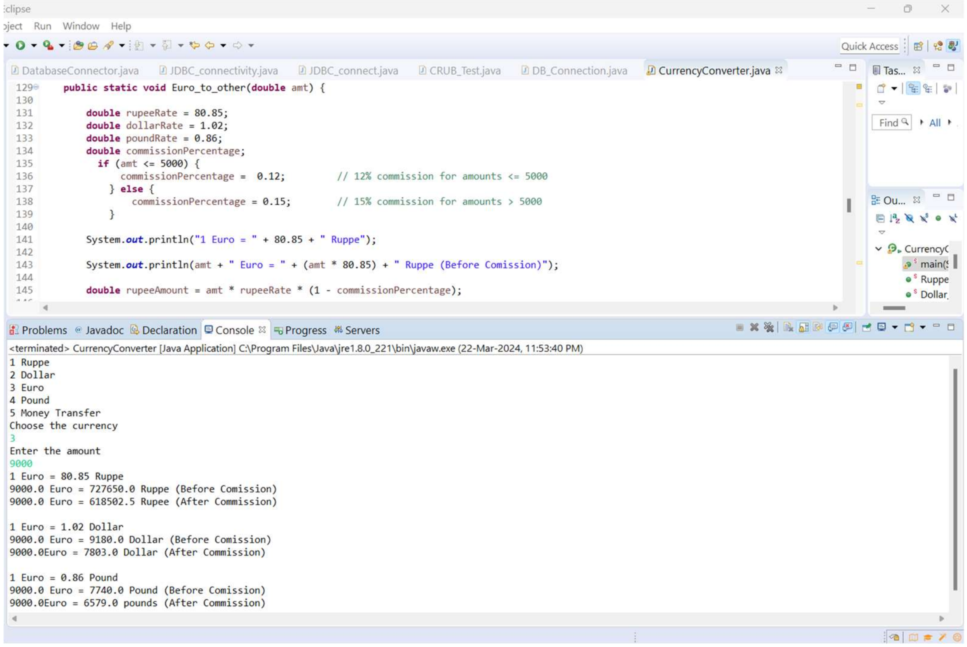
Dollars to others



```java

    public static void Dollar_to_other(double amt) {

        double rupeeRate = 79.37;
        double euroRate = 0.98;
        double poundRate = 0.79;
        double commissionPercentage;
          if (amt <= 5000) {
              commissionPercentage =  0.10;         // 10% commission for amounts <= 5000
            } else {
                commissionPercentage = 0.13;        // 13% commission for amounts > 5000
            }

        System.out.println("1 Dollar = " + 79.37 + " Ruppe");

        System.out.println(amt + " Dollar = " + (amt * 79.37) + " Ruppe (Before Comission)");

```

```
<terminated> CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:52:39 PM)
1 Ruppe
2 Dollar
3 Euro
4 Pound
5 Money Transfer
Choose the currency
2
Enter the amount
2000
1 Dollar = 79.37 Ruppe
2000.0 Dollar = 158740.0 Ruppe (Before Comission)
2000.0 Dollar = 142866.0 Rupee (After Commission)

1 Dollar= 0.98 Euro
2000.0 Dollar = 1960.0 Euro (Before Comission)
2000.0 Dollar = 1764.0Euro (After Commission)

1 Dollar= 0.79 Pound
2000.0 Dollar = 1580.0 Pound (Before Comission)
2000.0 Dollar = 1422.0pound (After Commission)
```

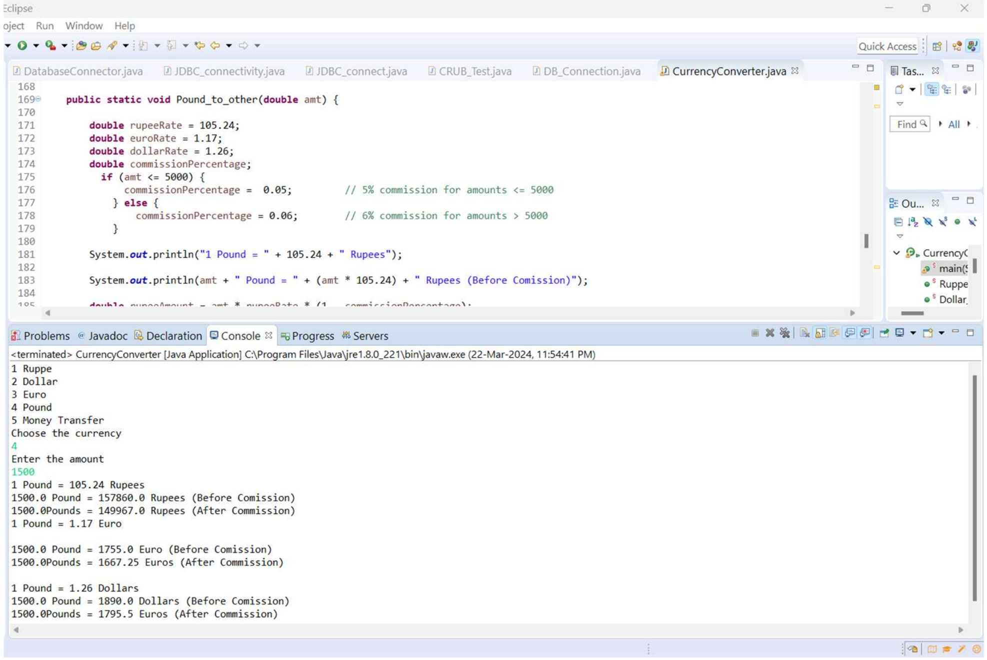
Euros to others



```java
    public static void Euro_to_other(double amt) {

        double rupeeRate = 80.85;
        double dollarRate = 1.02;
        double poundRate = 0.86;
        double commissionPercentage;
          if (amt <= 5000) {
              commissionPercentage =  0.12;         // 12% commission for amounts <= 5000
            } else {
                commissionPercentage = 0.15;        // 15% commission for amounts > 5000
            }

        System.out.println("1 Euro = " + 80.85 + " Ruppe");

        System.out.println(amt + " Euro = " + (amt * 80.85) + " Ruppe (Before Comission)");

        double rupeeAmount = amt * rupeeRate * (1 - commissionPercentage);
```

```
<terminated> CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:53:40 PM)
1 Ruppe
2 Dollar
3 Euro
4 Pound
5 Money Transfer
Choose the currency
3
Enter the amount
9000
1 Euro = 80.85 Ruppe
9000.0 Euro = 727650.0 Ruppe (Before Comission)
9000.0 Euro = 618502.5 Rupee (After Commission)

1 Euro = 1.02 Dollar
9000.0 Euro = 9180.0 Dollar (Before Comission)
9000.0Euro = 7803.0 Dollar (After Commission)

1 Euro = 0.86 Pound
9000.0 Euro = 7740.0 Pound (Before Comission)
9000.0Euro = 6579.0 pounds (After Commission)
```

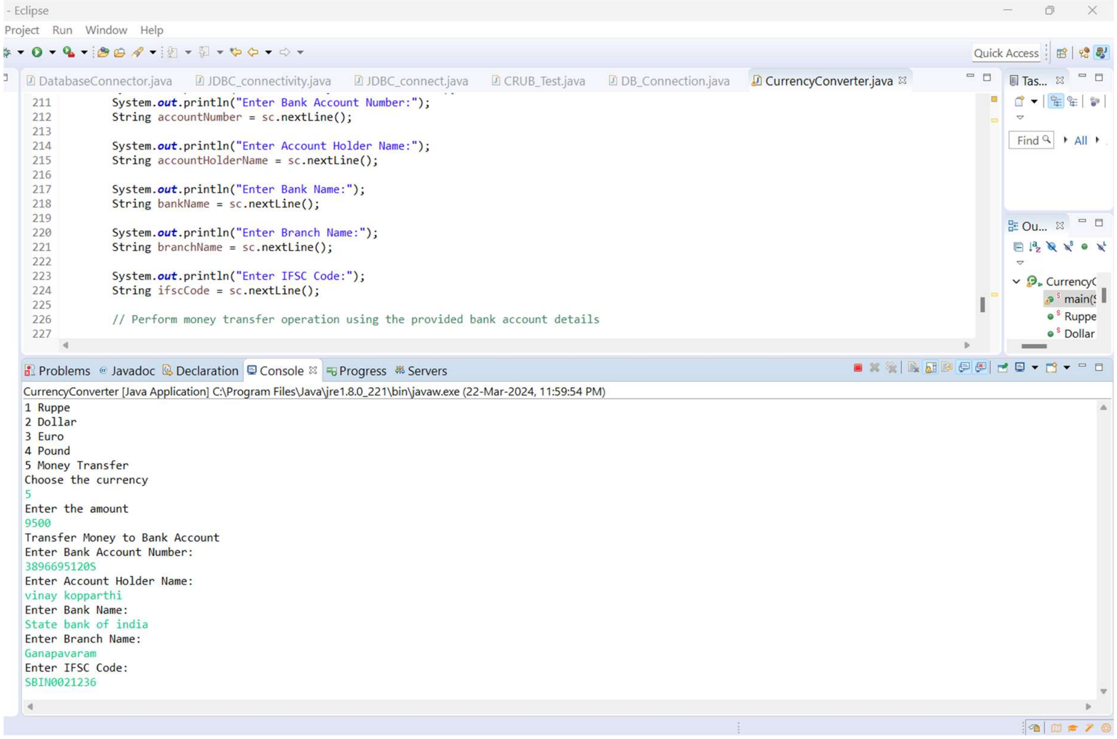
Pounds to others



```java

    public static void Pound_to_other(double amt) {

        double rupeeRate = 105.24;
        double euroRate = 1.17;
        double dollarRate = 1.26;
        double commissionPercentage;
          if (amt <= 5000) {
              commissionPercentage =  0.05;         // 5% commission for amounts <= 5000
            } else {
                commissionPercentage = 0.06;        // 6% commission for amounts > 5000
            }

        System.out.println("1 Pound = " + 105.24 + " Rupees");

        System.out.println(amt + " Pound = " + (amt * 105.24) + " Rupees (Before Comission)");

        double rupeeAmount = amt * rupeeRate * (1 - commissionPercentage);
```

```
<terminated> CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:54:41 PM)
1 Ruppe
2 Dollar
3 Euro
4 Pound
5 Money Transfer
Choose the currency
4
Enter the amount
1500
1 Pound = 105.24 Rupees
1500.0 Pound = 157860.0 Rupees (Before Comission)
1500.0Pounds = 149967.0 Rupees (After Commission)
1 Pound = 1.17 Euro

1500.0 Pound = 1755.0 Euro (Before Comission)
1500.0Pounds = 1667.25 Euros (After Commission)

1 Pound = 1.26 Dollars
1500.0 Pound = 1890.0 Dollars (Before Comission)
1500.0Pounds = 1795.5 Euros (After Commission)
```

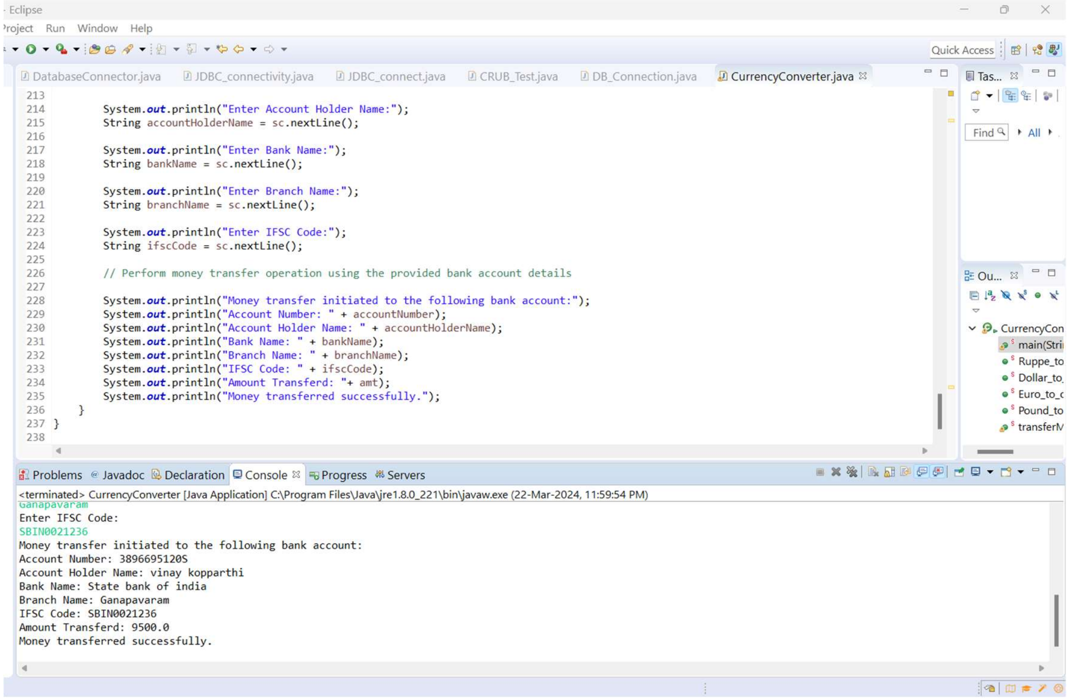
Collecting details for money transfer



```java
        System.out.println("Enter Bank Account Number:");
        String accountNumber = sc.nextLine();

        System.out.println("Enter Account Holder Name:");
        String accountHolderName = sc.nextLine();

        System.out.println("Enter Bank Name:");
        String bankName = sc.nextLine();

        System.out.println("Enter Branch Name:");
        String branchName = sc.nextLine();

        System.out.println("Enter IFSC Code:");
        String ifscCode = sc.nextLine();

        // Perform money transfer operation using the provided bank account details

```

```
CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:59:54 PM)
1 Ruppe
2 Dollar
3 Euro
4 Pound
5 Money Transfer
Choose the currency
5
Enter the amount
9500
Transfer Money to Bank Account
Enter Bank Account Number:
3896695120S
Enter Account Holder Name:
vinay kopparthi
Enter Bank Name:
State bank of india
Enter Branch Name:
Ganapavaram
Enter IFSC Code:
SBIN0021236
```

Transaction successful message



```java

        System.out.println("Enter Account Holder Name:");
        String accountHolderName = sc.nextLine();

        System.out.println("Enter Bank Name:");
        String bankName = sc.nextLine();

        System.out.println("Enter Branch Name:");
        String branchName = sc.nextLine();

        System.out.println("Enter IFSC Code:");
        String ifscCode = sc.nextLine();

        // Perform money transfer operation using the provided bank account details

        System.out.println("Money transfer initiated to the following bank account:");
        System.out.println("Account Number: " + accountNumber);
        System.out.println("Account Holder Name: " + accountHolderName);
        System.out.println("Bank Name: " + bankName);
        System.out.println("Branch Name: " + branchName);
        System.out.println("IFSC Code: " + ifscCode);
        System.out.println("Amount Transferd: "+ amt);
        System.out.println("Money transferred successfully.");
    }
}

```

```
<terminated> CurrencyConverter [Java Application] C:\Program Files\Java\jre1.8.0_221\bin\javaw.exe (22-Mar-2024, 11:59:54 PM)
Ganapavaram
Enter IFSC Code:
SBIN0021236
Money transfer initiated to the following bank account:
Account Number: 3896695120S
Account Holder Name: vinay kopparthi
Bank Name: State bank of india
Branch Name: Ganapavaram
IFSC Code: SBIN0021236
Amount Transferd: 9500.0
Money transferred successfully.
```

RESULT & CONCLUSION

Currency exchange and money transferring application has successfully executed using core java concepts .

Thus the application accurately exchanges the currency into one another and will transfer the currency from exchange centre to personal bank account.