

```
package exceptionexample;
import java.io.*;
```

```
class InsufficientFundsException extends Exception
{
    private double amount;
    public InsufficientFundsException(double amount)
    {
        this.amount = amount;
    }
    public double getAmount()
    {
        return amount;
    }
}
```

```
class CheckingAccount
{
    private double balance;
    private int number;

    public CheckingAccount(int number)
    {
        this.number = number;
    }

    public void deposit(double amount)
    {
        balance += amount;
    }
```

```
    public void withdraw(double amount) throws InsufficientFundsException
    {
        if(amount <= balance)
        {
            balance -= amount;
        }
        else
        {
            double needs = amount - balance;
            throw new InsufficientFundsException(needs);
        }
    }
```

```
    public double getBalance()
    {
        return balance;
    }
```

```
    public int getNumber()
```

```

    {
        return number;
    }
}
public class OwnException
{
    public static void main(String[] args) throws IOException, ArithmeticException
    {
        CheckingAccount c = new CheckingAccount(101);
        System.out.println("Depositing $500...");
        c.deposit(500.00);

        try
        {
            System.out.println("\nWithdrawing $100...");
            c.withdraw(100.00);
            System.out.println("\nWithdrawing $600...");
            c.withdraw(600.00);
        }
        catch(InsufficientFundsException e)
        {
            System.out.println("Sorry, but you are short $" + e.getAmount());
            e.printStackTrace();
        }
    }
}

```