

Aim: Create, debug and run java program based on user defined exception handling.

Theory:

What is User Defined Exception in Java?

User Defined Exception or Custom Exception is creating your own exception class and throws that exception using "throw" keyword. This can be done by extending the class Exception.

The keyword "throw" is used to create a new exception and throw it to the catch block.

Exception

```
getLocalizedMessage()  
getMessage()  
toString()
```

There is no need to override any of the above methods available in the Exception class, in your derived class. But practically, you will require

some amount of customizing as per your programming needs.

Conclusion : Hence, successfully create, debug and run Java program based on user defined exception handling.


```

→ class BankException extends Exception {
    double b, w;
    BankException () {}
    BankException (double b, double w) {
        b = b;
        w = w;
    }
    public String toString () {
        return "Insufficient funds ";
    }
}

class Bank {
    double balance;
    Bank () {
        balance = 50000;
    }
}

```

```

public class BankDemo {
    static void withdraw (double wd) throws
        BankException {
        if (wd <= b.balance) {
            System.out.println ("Collect your cash");
        }
        else
            throw new BankException (b.balance, wd);
    }
}

```

```

public static void main (String args []) {
    try {
        withdraw (50000);
    }
    catch (BankException e) {
        System.out.println ("Error : " + e);
    }
}
}

```

```
C:\Users\Public\Java>javac practical14.java
```

```
C:\Users\Public\Java>java practical14
```

```
Error : Insufficient funds
```

```
C:\Users\Public\Java>
```