



SCHOOL OF INFORMATION SCIENCE AND TECHNOLOGY

DEPARTMENT OF INFORMATION SECURITY AND ASSURANCE

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COURSE: ISS2101 Secure Coding

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Assignment: 1

Repository link: <https://github.com/DonaldWaeni/Secure-Coding.git>

```
// 1. Create a class Bank with fields accountType and
accountBalance.
class Bank {
    double accountBalance;
    String accountType;

    // 4. Create a parameterized constructor that sets the
accountType and the accountBalance.
    public Bank(String accountType, double accountBalance) {
        this.accountBalance = accountBalance;
        this.accountType = accountType;
    }

    // 2. Create a method deposit that adds to the accountBalance
and returns the value.
    public double deposit(double amount) {
        accountBalance += amount;
        return accountBalance;
    }

    // 3. Create a method withdrawal that subtracts from the
accountBalance and returns the value.
    public double withdrawal(double amount) {
        accountBalance -= amount;
        return accountBalance;
    }

    // 5. Create a method display to print "The account type is
(accountType) and the balance is (accountBalance)".
    public void display() {
        System.out.println("The account type is " + accountType +
" and the balance is " + accountBalance);
    }
}

// 6. Create a class Insurance that inherits from the Bank class.
class Insurance extends Bank {

    // Constructor for the Insurance class, calling the Bank
constructor.
    public Insurance(String accountType, double accountBalance) {
        super(accountType, accountBalance);
    }

    // 7. Create a method cover that prints "You are covered".
```

```

        public void cover() {
            System.out.println("You are covered");
        }
    }

    public class Main {
        public static void main(String[] args) {
            /* 8. In the main method create an instance of the Bank
            class.
            For the parameters use YOUR INITIALS as the accountType
            and YOUR REG NUMBER (without the characters) as the
            accountBalance.*/
            Bank myBankAccount = new Bank("D.E.W", 230769);

            // 9. Invoke display method.
            myBankAccount.display();
        }
    }
}

```

OUTPUT

The screenshot shows the IntelliJ IDEA IDE with the file `Main.java` open. The code defines a `Bank` class with a `cover` method and a `Main` class that creates a `Bank` instance and calls `cover`. The `Run` tab at the bottom shows the execution output.

```

class Bank {
    // 6. Create a class Insurance that inherits from the Bank class.
    class Insurance extends Bank {
        // Constructor for the Insurance class, calling the Bank constructor.
        public Insurance(String accountType, double accountBalance) {
            super(accountType, accountBalance);
        }
    }

    // 7. Create a method cover that prints "You are covered".
    public void cover() {
        System.out.println("You are covered");
    }
}

public class Main {

```

Run Main

```

"C:\Program Files\Java\jdk-22\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2024.2\lib\idea_rt.jar=10884:C:\Program
The account type is D.E.W and the balance is 230769.0
Process finished with exit code 0

```

Secure_coding_Assignment_1 > src > Main.java > Insurance > cover 43:14 LF UTF-8 4 spaces