SCHOOL OF INFORMATION SCIENCE AND TECHNOLOGY

DEPARTMENT OF INFORMATION SECURITY AND ASSURANCE

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COURSE:	**ISS2101 Secure Coding**
LECTURER:	**Mr. Nyaruviro**
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