

Financial Forecasting

Code:

```
interface ForecastStrategy {  
    void forecast();  
}
```

```
class ShortTermForecast implements ForecastStrategy {  
    public void forecast() {  
        System.out.println("Performing short-term financial forecasting (1-3 months).");  
    }  
}
```

```
class MidTermForecast implements ForecastStrategy {  
    public void forecast() {  
        System.out.println("Performing mid-term financial forecasting (6-12 months).");  
    }  
}
```

```
class LongTermForecast implements ForecastStrategy {  
    public void forecast() {  
        System.out.println("Performing long-term financial forecasting (1-5 years).");  
    }  
}
```

```
class ForecastFactory {  
    public ForecastStrategy getForecastStrategy(String type) {  
        if (type == null) return null;  
  
        if (type.equalsIgnoreCase("SHORT")) {  
            return new ShortTermForecast();  
        } else if (type.equalsIgnoreCase("MID")) {
```

```

        return new MidTermForecast();
    } else if (type.equalsIgnoreCase("LONG")) {
        return new LongTermForecast();
    }
    return null;
}
}

public class Main {
    public static void main(String[] args) {
        ForecastFactory factory = new ForecastFactory();

        ForecastStrategy forecast1 = factory.getForecastStrategy("SHORT");
        forecast1.forecast();

        ForecastStrategy forecast2 = factory.getForecastStrategy("MID");
        forecast2.forecast();

        ForecastStrategy forecast3 = factory.getForecastStrategy("LONG");
        forecast3.forecast();
    }
}

```

Output:

```

Microsoft Windows [Version 10.0.26100.4351]
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D:\cognizant\week 1\Data Structure and algorithm\Financial forecasting>javac *.java

D:\cognizant\week 1\Data Structure and algorithm\Financial forecasting>java Main
Performing short-term financial forecasting (1-3 months).
Performing mid-term financial forecasting (6-12 months).
Performing long-term financial forecasting (1-5 years).

D:\cognizant\week 1\Data Structure and algorithm\Financial forecasting>

```