

# SA Practical

## ▼ Creating Web Service

<https://www.youtube.com/watch?v=0z-HvSfr-M4>

```
from flask import Flask, request, jsonify

app = Flask(__name__)

@app.route('/addition/<int:a>/<int:b>', methods=['GET'])
def add(a, b):
    result = a + b
    return jsonify({"result": result})

if __name__ == '__main__':
    app.run(debug=True)
```

Run

```
pip3 install flask
```

```
python3 webservice.py
```

## ▼ RMI

Terminal 1

```
javac *.java
```

```
rmiregistry 5001
```

## Terminal 2

```
java ServerName
```

## Terminal 3

```
java Client
```

## ▼ Design patterns

Singleton

[https://www.tutorialspoint.com/design\\_pattern/singleton\\_pattern.htm](https://www.tutorialspoint.com/design_pattern/singleton_pattern.htm)

Abstract Factory

[https://www.tutorialspoint.com/design\\_pattern/abstract\\_factory\\_pattern.htm](https://www.tutorialspoint.com/design_pattern/abstract_factory_pattern.htm)

Facade

[https://www.tutorialspoint.com/design\\_pattern/facade\\_pattern.htm](https://www.tutorialspoint.com/design_pattern/facade_pattern.htm)

Composite

[https://www.tutorialspoint.com/design\\_pattern/composite\\_pattern.htm](https://www.tutorialspoint.com/design_pattern/composite_pattern.htm)

Observer

[https://www.tutorialspoint.com/design\\_pattern/observer\\_pattern.htm](https://www.tutorialspoint.com/design_pattern/observer_pattern.htm)

Strategy

[https://www.tutorialspoint.com/design\\_pattern/strategy\\_pattern.htm](https://www.tutorialspoint.com/design_pattern/strategy_pattern.htm)