UNIVERSITÀ DI TORINO

Exercise 1

Ricreate the Character Exercise

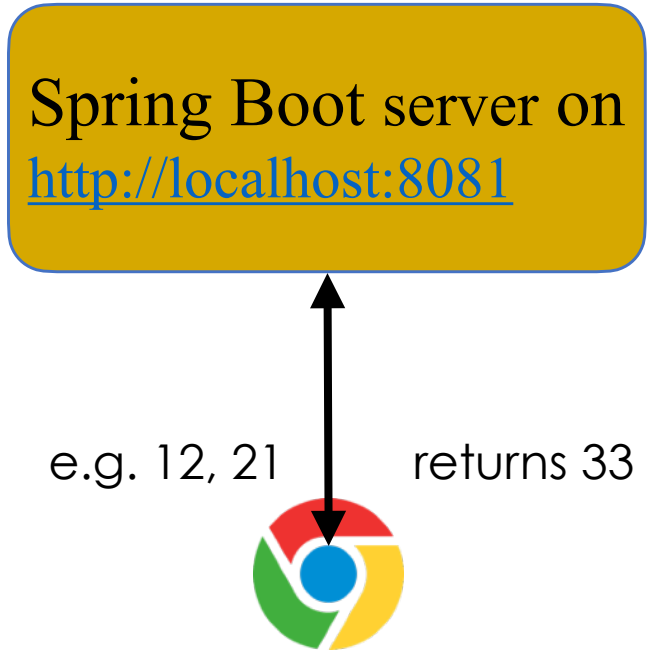
- Trying not to look at the code provided during the lecture

UNIVERSITÀ DI TORINO

Exercise 2

Create a server

- returning a form with two numbers (number1 and number2) and create a Spring Boot server receiving the values in post from an Ajax call (provided)
  - and returns the sum of the two numbers



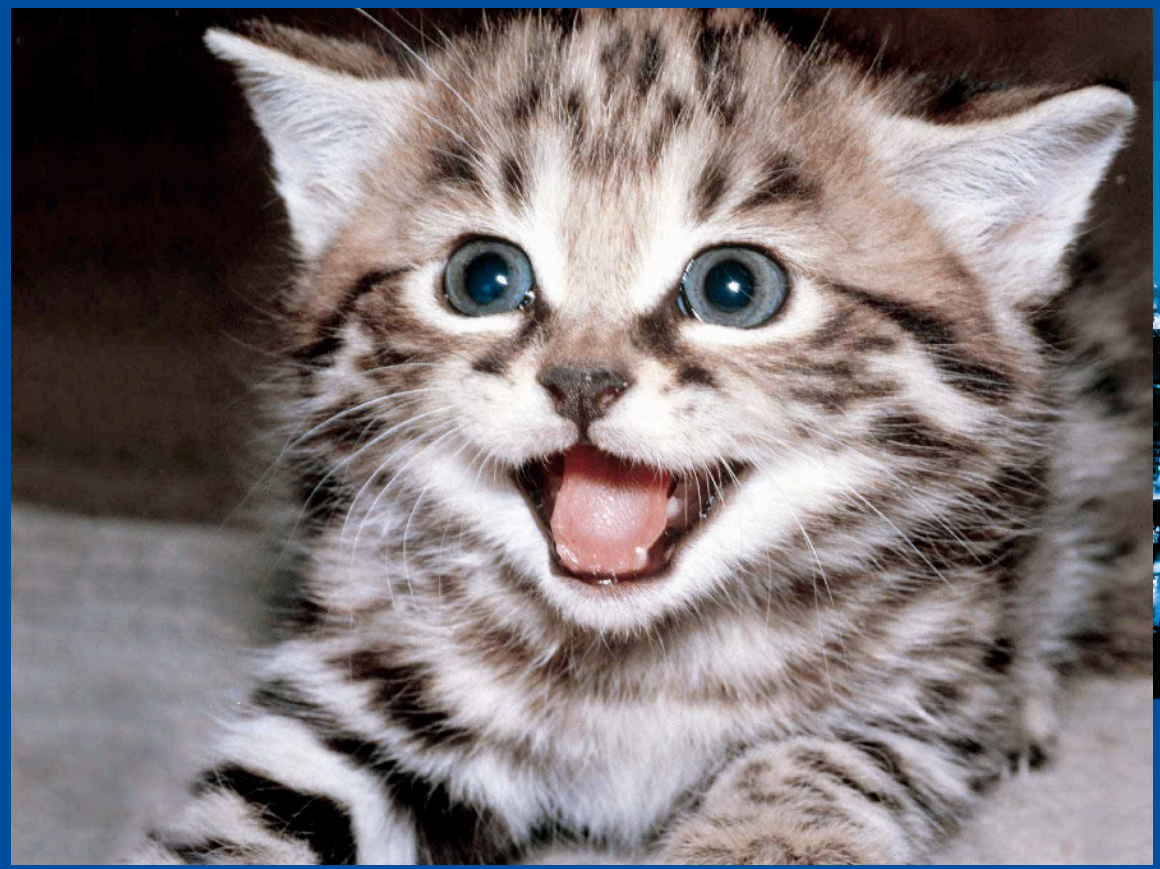
UNIVERSITÀ DI TORINO

Method

- Define the java class containing two numbers in the fields
- unpack it in the post
- sum and return the result

UNIVERSITÀ DI TORINO

Exercise 3: Kittens!



Create a server

- Which enables to fill a form about a person
  - name, surname, gender, dob
  - Send to a server to compute their age (start from the first exercise)
  - then, if the person is >30
    - send a GET to a route '`/youngster`' the name, surname and dob
      - to return an image of cat1
    - otherwise send to a route '`/older`' just the name
      - which will return an image of cat2

How to return an image from Spring Boot

```
try {
            // Assuming the image file is located in resources/images
            InputStream inputStream =
                getClass().getClassLoader().getResourceAsStream("images/image.jpg");

            if (inputStream == null) {
                return ResponseEntity.notFound().build();
            }
            byte[] imageBytes = IOUtils.toByteArray(inputStream);
            return ResponseEntity.ok()
                    .contentType(MediaType.IMAGE_JPEG)
                    .body(imageBytes);
        } catch (IOException e) {
            return ResponseEntity.internalServerError().build();
        }
```

to receive that image from axios

```
axios.get('/youngster')
  .then(response => {
    const imageBlob = new Blob([response.data], { type: 'image/jpeg' }
    const imageURL = URL.createObjectURL(imageBlob);

    // Set the src attribute of an image tag to the image URL
    const imageTag = document.getElementById('image');
    imageTag.src = imageURL;
  })
  .catch(error => {
    console.error(error);
  });
```