### Assignment -1

Name: Ajay Hosmar Shenoy

### List of files created for the project

- CoinBean
- Coin Model
- Operation Model
- SimpleRest Restful Web services
- index.xhtml JSF Page
- Web.xml

### Task 1: Implementing coin flipping page

- Step 1: Run the server.
- Step 2: Navigate to localhost:<port>/index.xhtml

#### Screenshots:

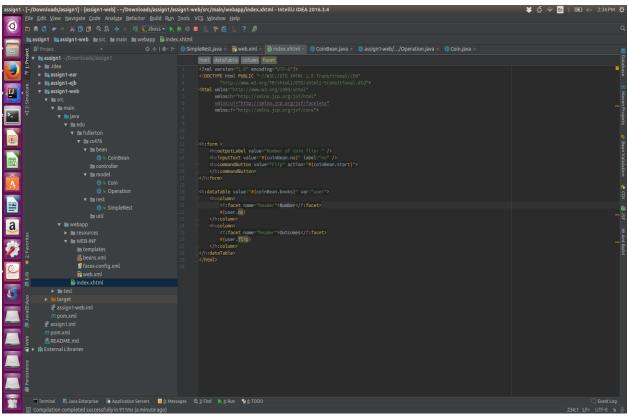


Figure 1 IntelliJ IDEA, Step 1

### Assignment -1

```
Experience (Constitution) | Constitution | Constitu
```

Figure 2 Server Setup, Step 1

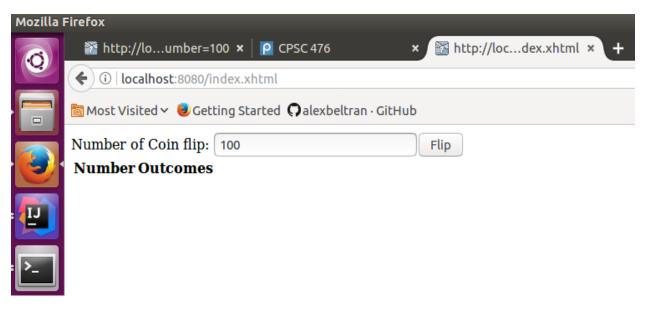


Figure 3 Coin flipping page, Step 2

### Assignment -1

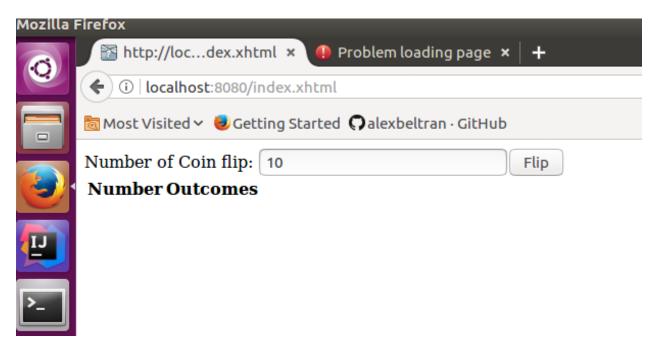


Figure 4 Coin flipping Input 1, Step 2

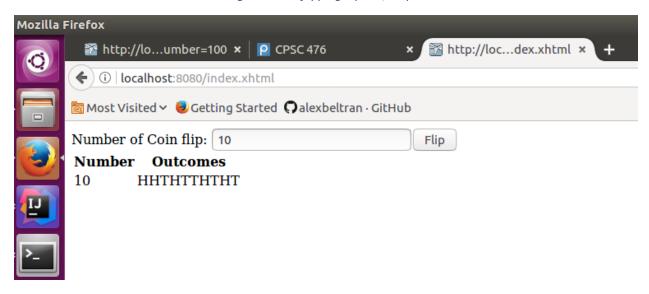


Figure 5 Coin flipping Result 1, Step 2

#### Assignment -1

Name: Ajay Hosmar Shenoy

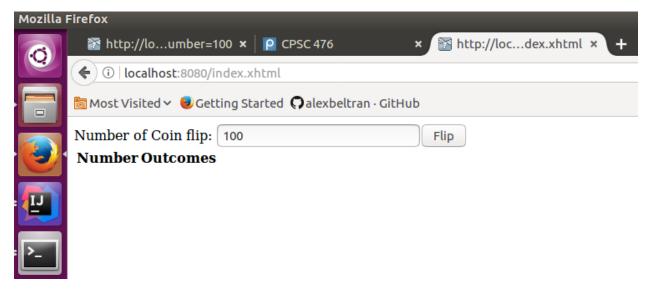


Figure 6 Coin flipping Input 2, Step 2

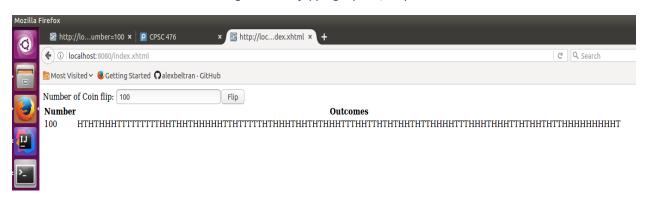


Figure 7 Coin flipping Result 2, Step 2

### Task 2: Implement the coin flipping page as a Restful Web API.

- Step 1: Implement GET Method by curl <a href="http://localhost:<port>/rest/simple/withFlipGet?flips=10">http://localhost:<port>/rest/simple/withFlipGet?flips=10</a>
- Step 2: Implement POST Method by curl –request POST
   'http://localhost:8080/rest/simple/withFlipPost' –data-urlencode "flip=10" –header
   "Accept:application/json"

### Assignment -1

Name: Ajay Hosmar Shenoy

#### Screenshots:

Figure 8 GET Method, Step 1

### Assignment -1

Name: Ajay Hosmar Shenoy

```
ajay@ajayshenoy: ~/IdeaProjects/assign1
ajay@ajayshenoy: ~/IdeaProjects/assign1$ curl --request POST 'http://localhost:80
80/rest/simple/withFlipPost' --data-urlencode "flip=10" --header "Accept:applica
tion/json"
{"no":10,"flip":"THTTTHTTHH"}ajay@ajayshenoy:~/IdeaProjects/assign1$

■
```

Figure 9 Post Method, Step 2

Task 3: Implement a Restful Web API that can perform addition, subtraction, multiplication, and division on two numbers.

- Step 1: Perform addition by curl <u>http://localhost:<port>/rest/simple/add?firstNumber=2&secondNumber=4</u>
- Step 2: Perform subtraction by curl <u>http://localhost:<port>/rest/simple/subtract?firstNumber=2&secondNumber=4</u>
- Step 3: Perform multiplication by curl http://localhost:<port>/rest/simple/multiply?firstNumber=2&secondNumber=4
- Step 4: Perform division by curl <u>http://localhost:<port>/rest/simple/divide?firstNumber=2&secondNumber=4</u>

#### Assignment -1

Name: Ajay Hosmar Shenoy

#### Screenshots:

Addition

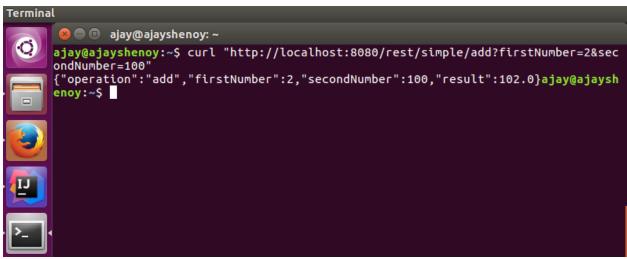


Figure 10 Addition Curl Input 1, Step 1

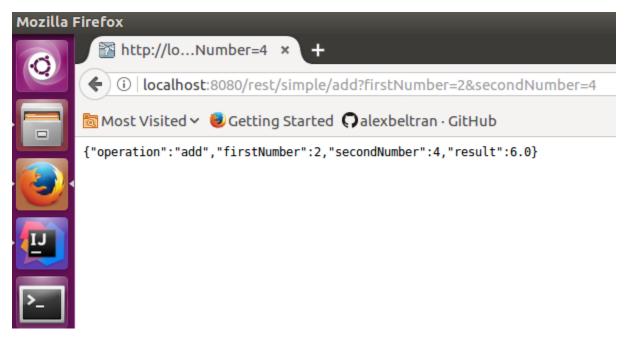


Figure 11 Addition Web Input 1, Step 1

#### Assignment -1

Name: Ajay Hosmar Shenoy



Figure 12 Addition Web Input 2, Step 1

#### • Subtraction:

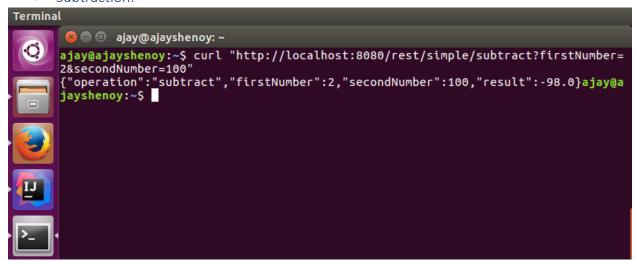


Figure 13 Subtraction Curl Input 1, Step 2

#### Assignment -1



Figure 14 Subtraction Web Input 1, Step 2

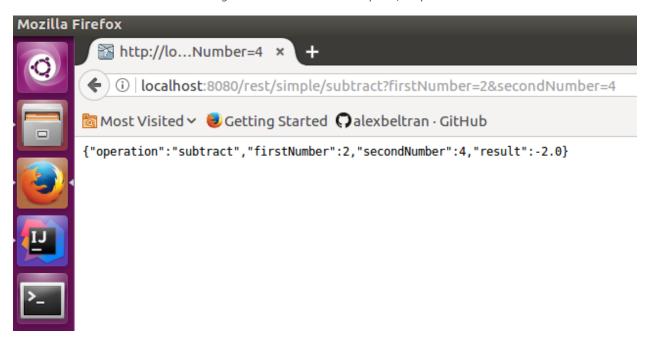


Figure 15 Subtraction Web Input 2, Step 2

#### Assignment -1

Name: Ajay Hosmar Shenoy

• Multiplication:

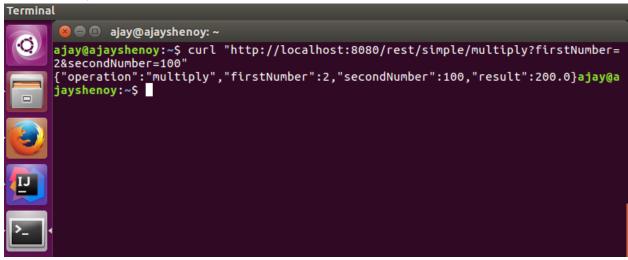


Figure 16 Multiplication Curl Input 1, Step 3

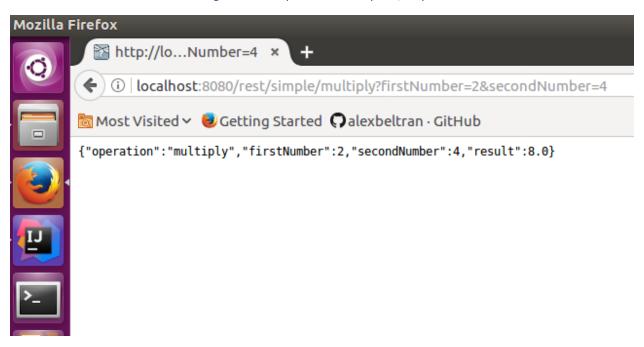


Figure 17 Multiplication Web Input 1, Step 3

### Assignment -1

Name: Ajay Hosmar Shenoy



Figure 18 Multiplication Web Input 2, Step 3

#### • Division:

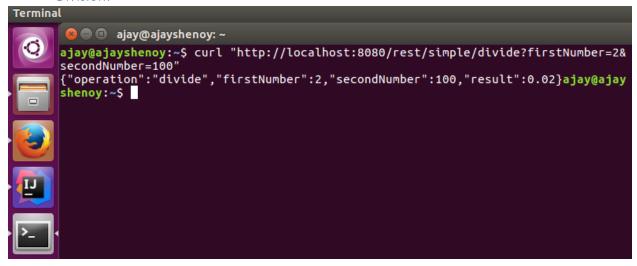


Figure 19 Division Curl Input 1, Step 4

#### Assignment -1



Figure 20 Division Web Input 1, Step 4

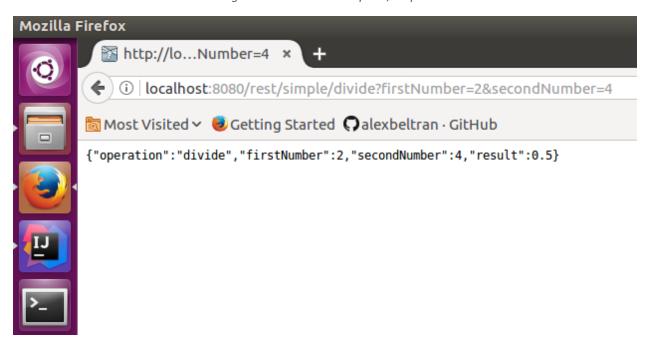


Figure 21 Division Web Input 2, Step 4