BODMAS EXPRESSION EVALUATOR

Setting Up:

We can use STS and import the project and run it as a spring boot application.

Source Code structure:

Using the ApplicationController as the main Rest controller available inside *beehyv.conroller* package, we are making calling the methods from Service classes available in *beehyv.service* package. Model object from *beehyv.model* package is used to persist the Table *OperatorsCount* into H2 database.

This H2 DB can be accessed from: http://localhost:8080/h2-console/login.jsp

Username: sa and Password: "" (empty)

REST End Points:

Using Spring Boot and H2 Data Base 2 REST endpoints are created here. On top of the overall REST controller I have the annotation @RequestMapping("/bodmas") which means we need to use it in the URL to make any endpoint call.

1. @PostMapping("evaluate/{userid}/**"):

Here we can pass UserId (Integer) and the BODMAS expression that needs to be evaluated.

Sample Call from POSTMAN

POST: http://localhost:8080/bodmas/evaluate/99/5*(3+(1-5))/5

RESULT: -1.0 (as expected)

Here UserId = 99 and Bodmas Expression to be processed is 5*(3+(1-5))/5

2. @GetMapping("/highestcount/{userid}")

Sample Call from POSTMAN

GET: http://localhost:8080/bodmas/highestcount/32

RESULT: The most used operator for the User: 32 is * Operator ----->8 times !!

(Result says * operator (multiply) is used most frequently, based the above evaluate calls made for user Id 32)

Here UserId = 99