

1. Chosen operations (and according keyword in file):

| Operation | Keyword in file | Example |
|----------------------------------|-----------------|--------------------|
| add | add | 25 add 4 = 29 |
| subtract | subtract | 24 subtract 4 = 20 |
| multiply | multiply | 2 multiply 5 = 10 |
| divide | divide | 6 divide 2 = 3 |
| exponentiation (to any exponent) | pow | 3 pow 2 = 9 |
| modulo | mod | 25 mod 7 = 4 |
| apply | apply | apply 1 = 1 |

2. Assumptions:

- Calculator works only with integer values (division result is also integer e.g. (29 divide 8 = 3).
- File contains only valid input (e.g. does not contain multipli keyword instead of multiply).
- Instructions and keyword and lines are separated by single space.

3. Tested examples:

- add 2
multiply 3
apply 10
- multiply 3
add 2
apply 10
- apply 1
- multiply 3
subtract 3
add 2
divide 8
pow 4
mod 4
apply 10
- multiply 2
pow 2
subtract 6
apply 15

4. Instructions how to build project:

I build project using Maven in CMD. I opened CMD in a location of project (inside **calculator-app** directory) and type following command:

mvn clean package

5. Instructions how to run the application from command line:

Firstly, I modify **inputData.txt** file. Next, I opened CMD in a location of project (inside **calculator-app** directory) and type following command:

```
java -cp target/calculator-app-1.0-SNAPSHOT.jar com.storware.app.App
```

and got following output:

```
Output = 26
```