

Exercise 6 Custom Calculator Solution by Munawar

Exercise 6

You have to create a custom calculator with following operations:

1. + Addition
2. – Substaction
3. * Multiplication
4. / Division

Which throws the following exceptions:

1. Invalid input Exception ex. 8 & 9
2. Cannot divide by 0 Exception
3. Max input Exception if any of the inputs is greater than 100000.
4. Max multiplier Reached Exception. Don't allow any multiplication input to be greater than 7000.

Source Code

```
import javax.naming.CannotProceedException;
import java.lang.reflect.Array;
import java.time.LocalDate;
import java.time.LocalDateTime;
import java.time.format.DateTimeFormatter;
import java.util.*;
import java.time.LocalTime;
class InvalidInputException extends Exception{

    @Override
    public String toString(){
        return "Cannot add 8 and 9";
    }

}
```

```

class Custom_calculator{
    double add(double a,double b) throws InvalidInputException{
        if(a==8|| b==9) {
            throw new InvalidInputException();
        }
        return a+b;
    }
    double subtract(double a,double b){
        return a-b;
    }
    double multiple(double a,double b){
        return a*b;
    }
    double divide(double a,double b) throws CannotProceedException {
        if(b==0){
            throw new CannotProceedException();
        }
        return a/b;
    }
}

public class NewTask {
    public static void main(String[] args) {

        Custom_calculator custom=new Custom_calculator();
        custom.divide(20,10);
    }
}

```

Thank You