1. Create a Calculator program such that the numbers are taken as input from the user. Do addition/substraction/multiplication.
   * Handle the appropriate exceptions.
   * Hint: Use InputMismatchException, Arithmetic Exception
   * In the previous exercise, modify the program such that the exceptions are not handled in the add, diff, mul and div methods. The exception handling should be delegated to the caller method.

2. In the previous exercise, modify the program such that the exceptions are not handled in the add, diff, mul and div methods. The exception handling should be delegated to the caller method.

3. Create a class called Employee that asks the user to input the name and the age of an employee. Raise a custom defined exception when the user enters an employee name that has already been entered and raise another exception if the age is negative or less than 18 or greater than 60. If there is any occurrence of InputMismatchException and NumberFormatException, throw those also as user defined exceptions.

* + Hint: use exception

Hint…

String names[] ={"William","Obama","Modi","Rahul","Ahmed"};

Enter employee name :

Jay / Modi

String enteredName = sc.next();

for(String s:names)

{

if(s.equals(enteredName)

{

throw new UserAlreadyExistsException();

}

}

Welcome Mr. Jay

Name already exists.

Thanks for using my program

Please enter your age :

age = sc.nextInt();

if(age<0)

throw new Age("Age cannot be negative");

else if(

-3

16

109

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UserAlreadyExistsException

InvalidAge