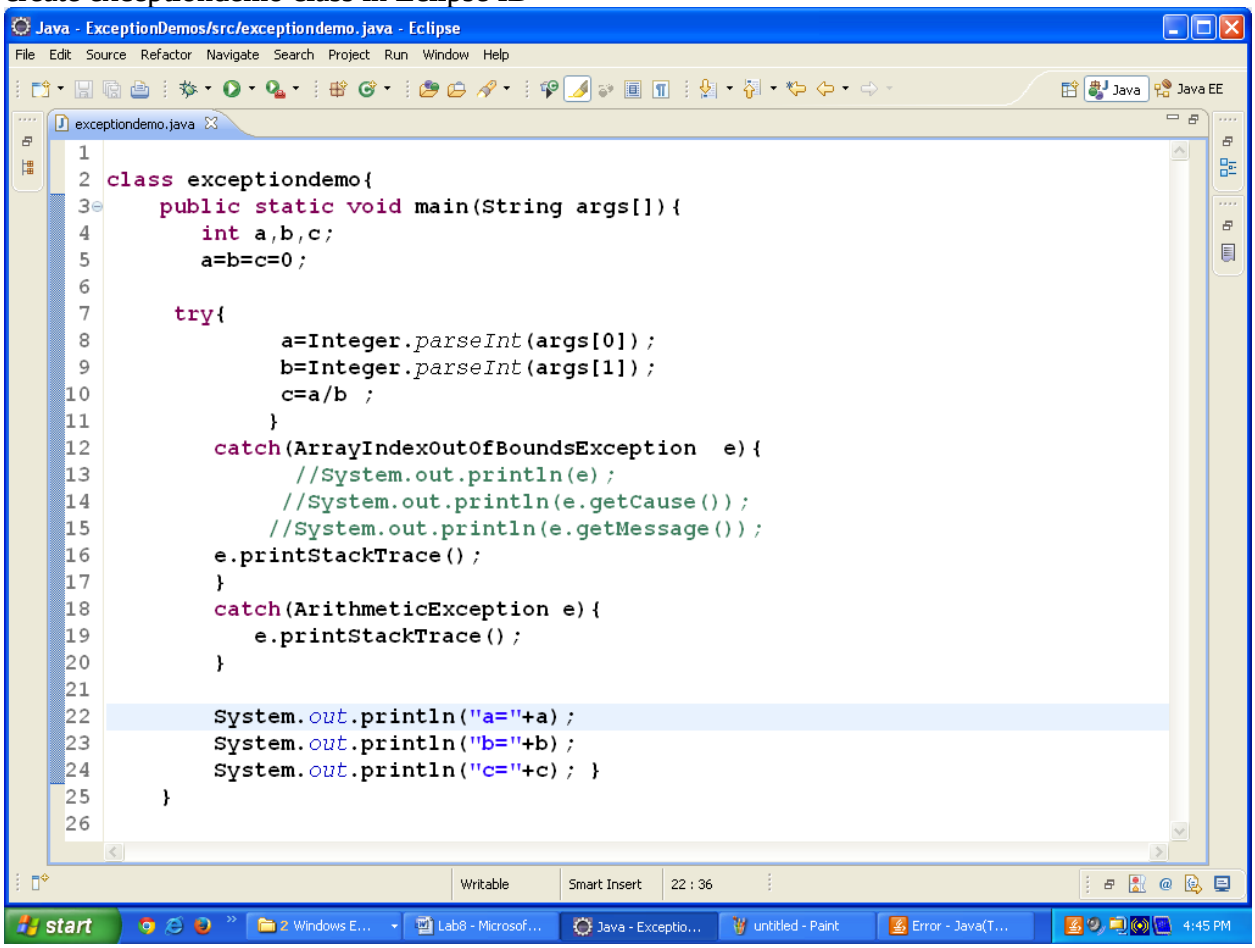
Lab-8 Assignments

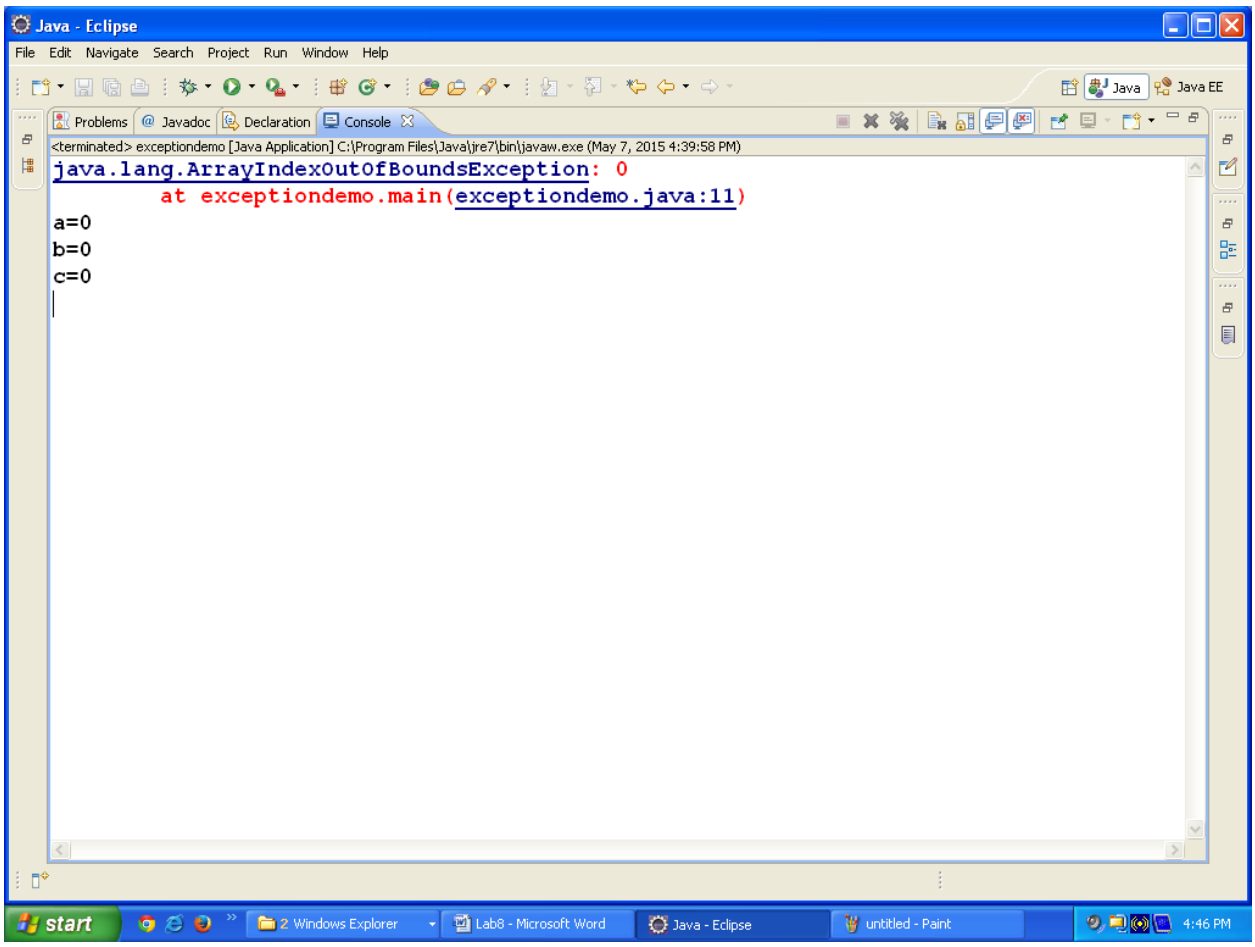
Exception Handling

Demo1

create exceptiondemo class in Eclipse ID

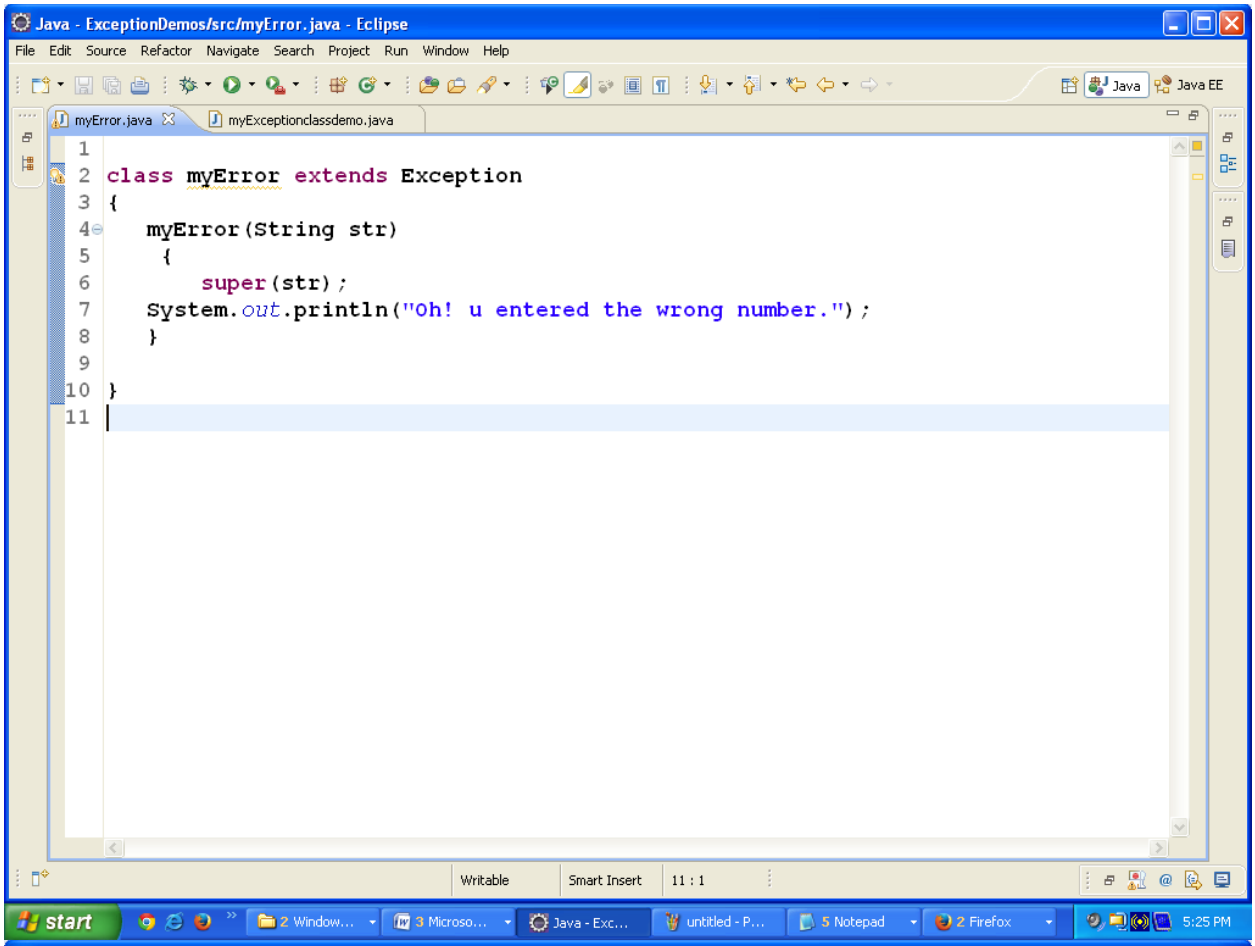


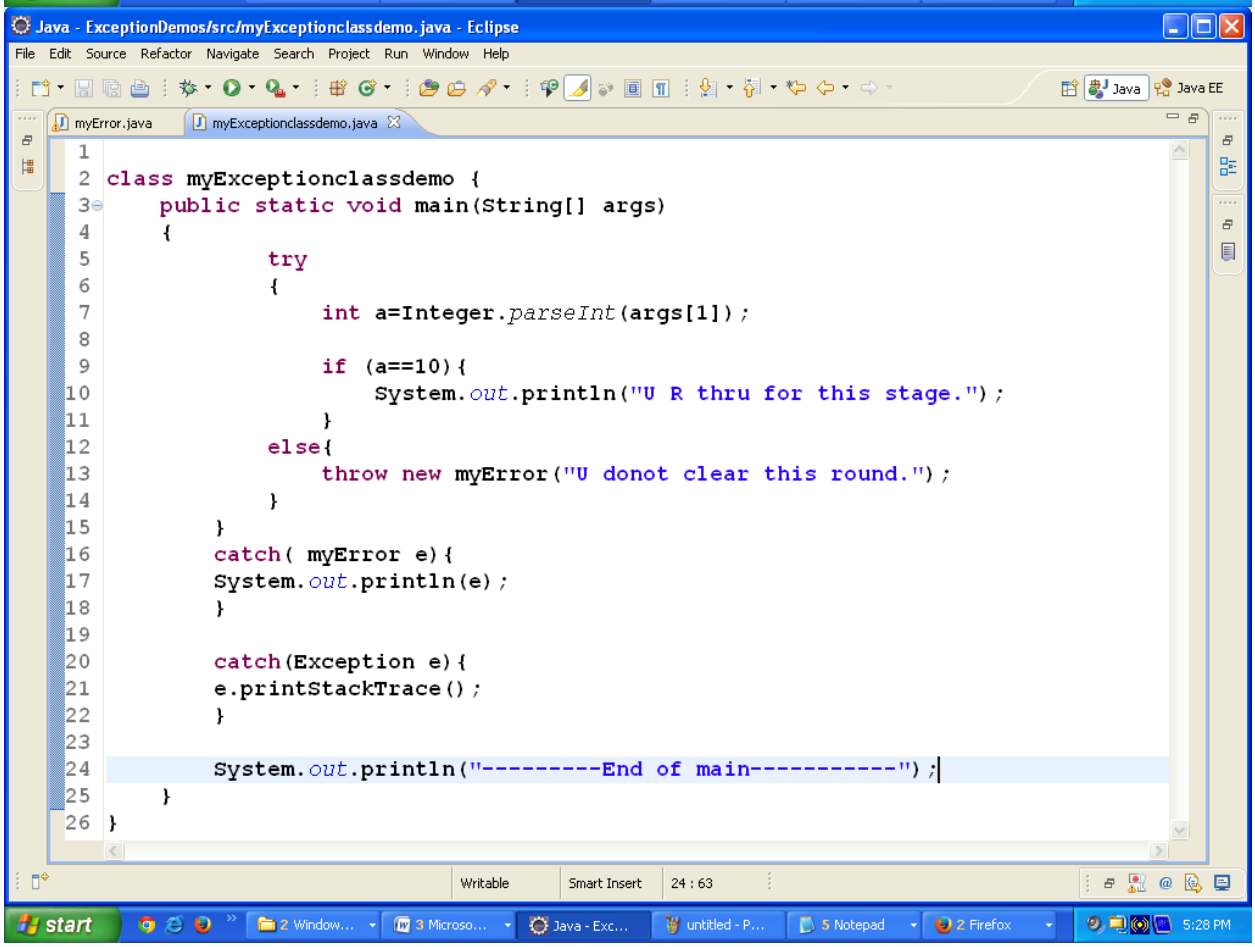
Run as -> Java Application



Demo2

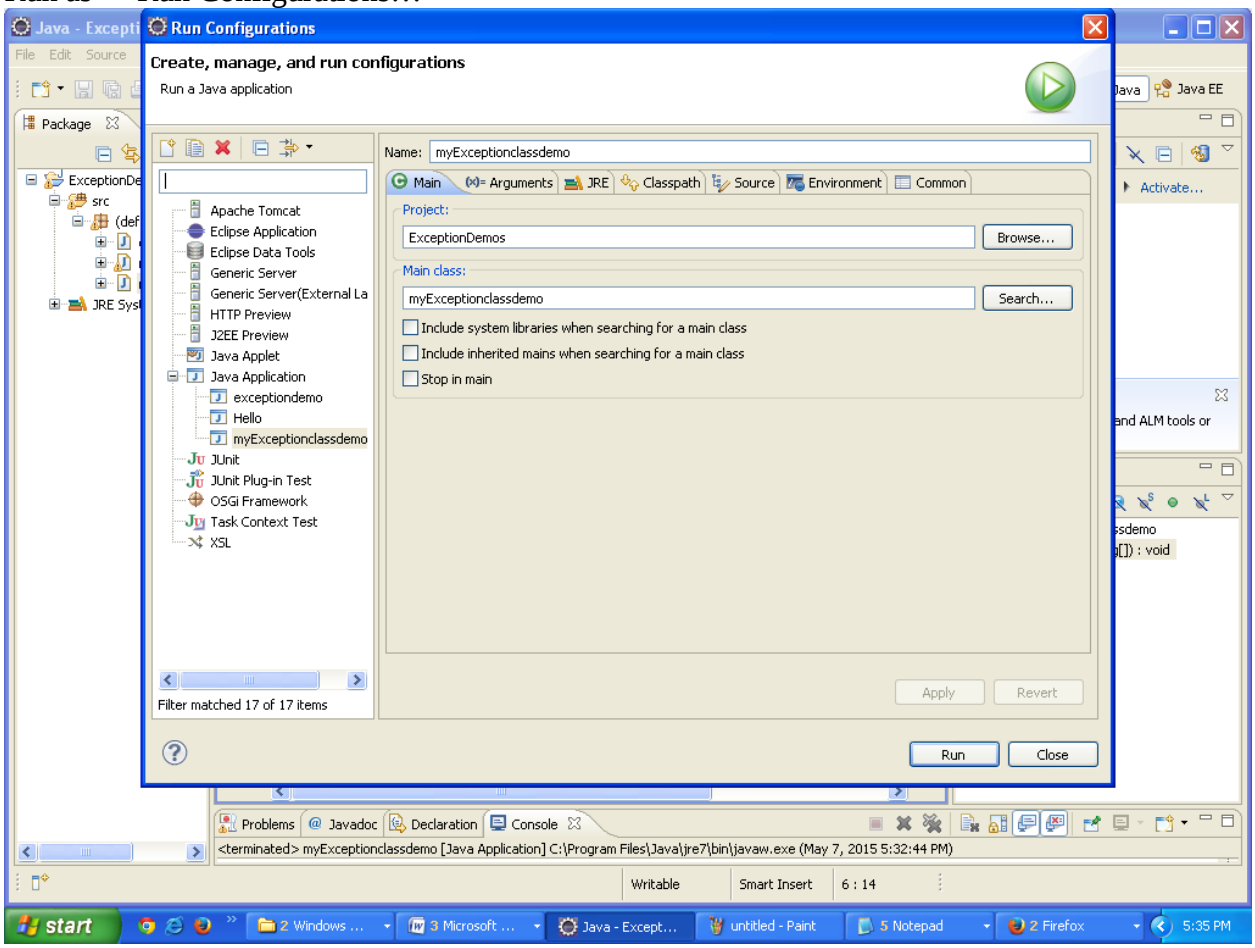
create userdefined exception class **myError** and **myExceptiondemoclass**



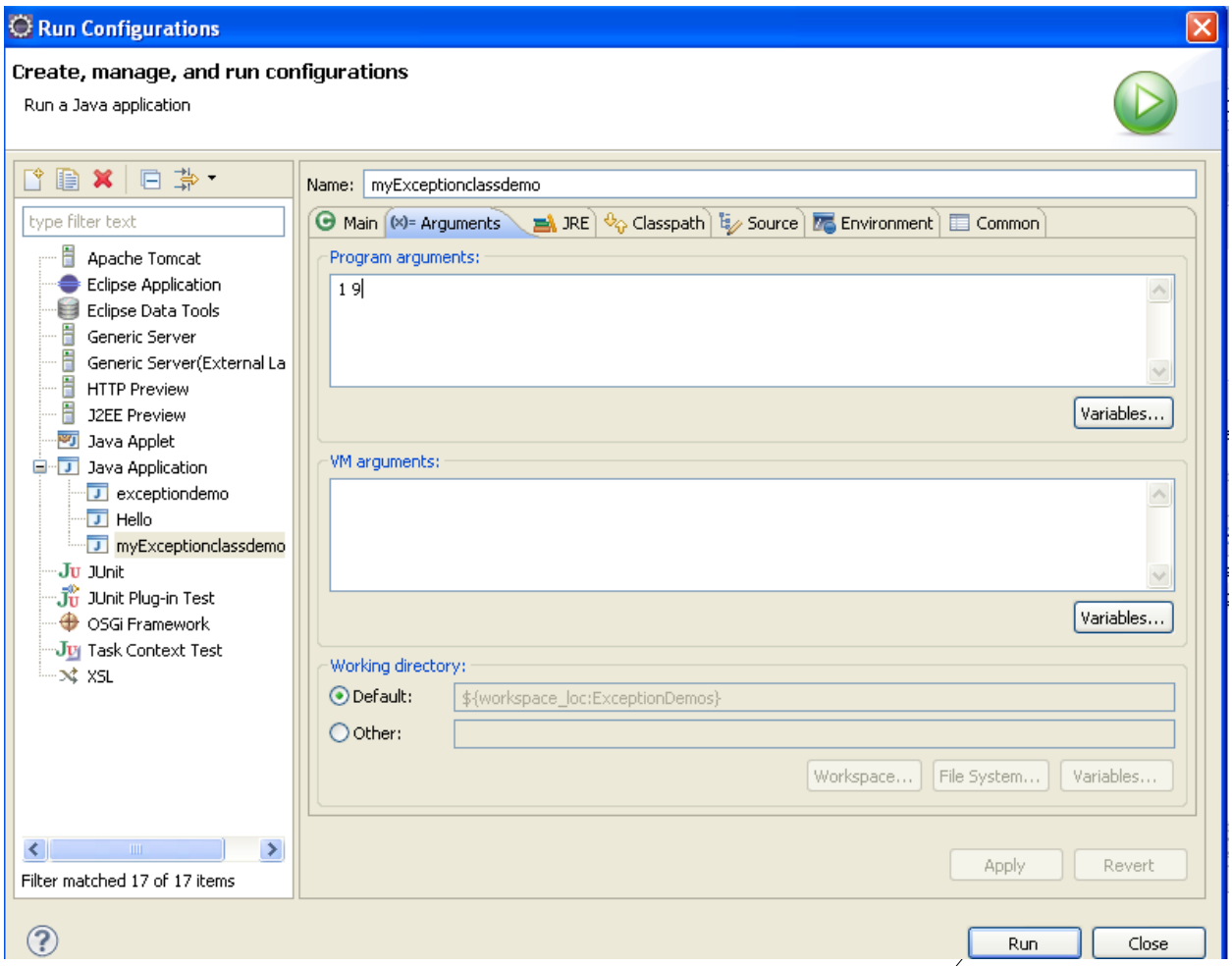


Steps for passing CLA(command Line Arguments in eclipse)

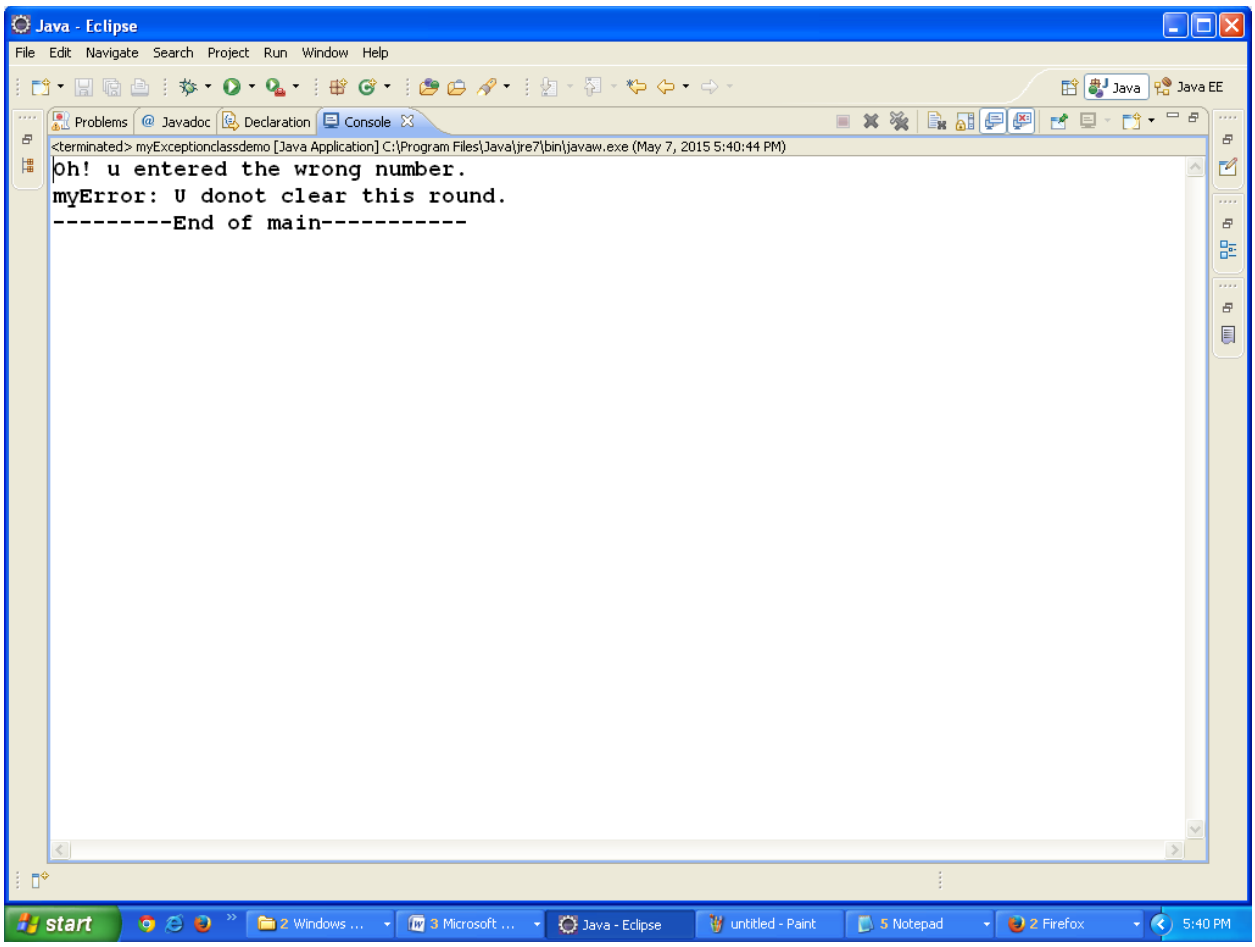
Run as -> Run Configurations…



Click on Arguments



Enter Arguments and click on Run



Assignments To Solve:

1. Create a class called CalcAverage that has the following method:
   public double avgFirstN(int N)

   This method receives an integer as a parameter and calculates the average of first N natural numbers. If N is not a natural number, throw an exception IllegalArgumentException with an appropriate message.

2. Create a class Number having the following features:
   Attributes

int	first number	
int	second number	
result	double	stores result of math operations performed on a & b

   Member functions(Methods)

Number(x, y)	constructor to initialize the values of a and b
add()	stores the sum of a and b in result
sub()	stores difference of a and b in result
mul()	stores product in result
div()	stores a divided by b in result

   Test to see if b is 0 and throw an appropriate exception since division by zero is undefined. Display a menu to the user to perform the above four arithmetic operations.

3. Create a user defined Exception class called **InsufficientFundsException**
   (Note: Use the existing **Account** Class (created in lab3))

Handle an exception for **Withdraw(int amt)** in Account class
Withdraw(int amt) should throw **InsufficientFundsException** if the amount to be withdrawn is greater than the balance.
Accept the values from user for creating Account object and amt to withdraw

4. Create a userdefined Exception classes **IncorrectAgeException** & **IncorrectNationalityException**
Write a class **Voter** with constructors and methods **toString(), check**(String name, int age)
The check (…) should check for Nationality and age for voting and throw appropriate Exception
Accept the Name, Nationality & age from user