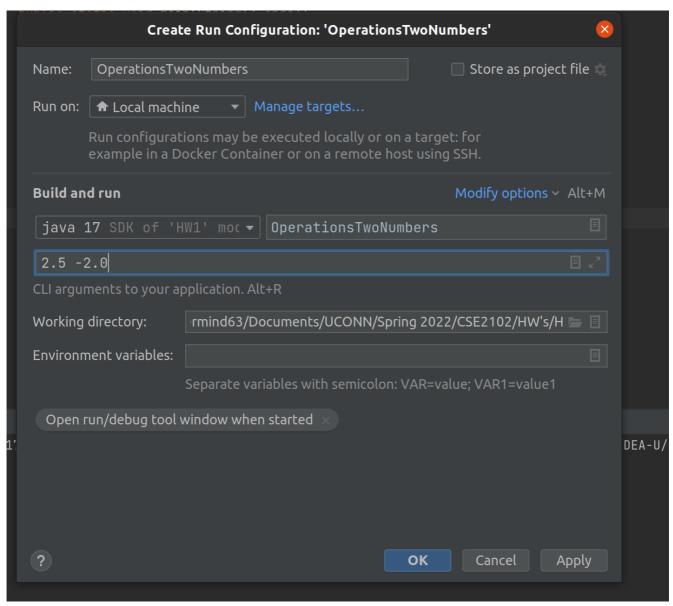
2102 HW1

Homework 1

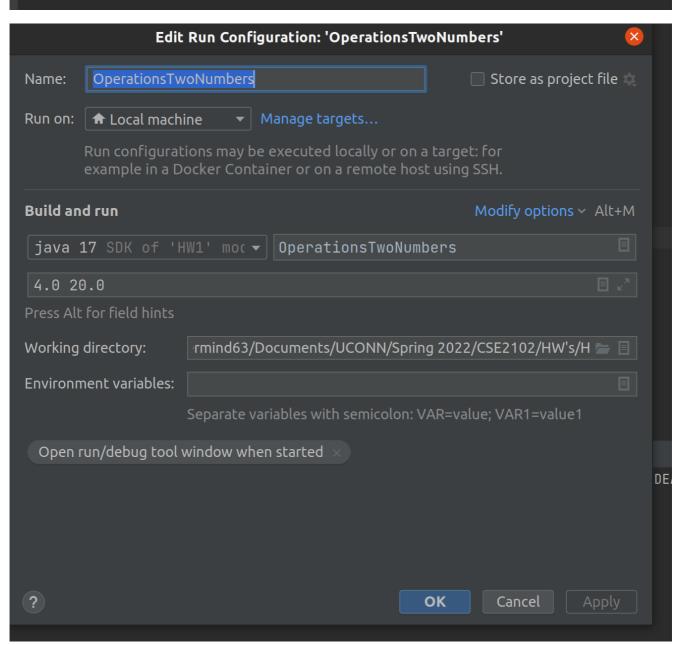
Question 1: Number Calculations

• The Program Accepts both Positive and Negative Numbers



/home/mastermind63/.jdks/openjdk-17.0.2/bin/java -j
The sum of the two numbers is: 0.5
The difference of the two numbers is: 4.5
The product of the two numbers is: -5.0
The quotient of the two numbers is: -1.25
The exponentiation of the two numbers is: 0.16

Process finished with exit code 0



```
/home/mastermind63/.jdks/openjdk-17.0.2/bin/java -javaagent:/home The sum of the two numbers is: 24.0
The difference of the two numbers is: -16.0
The product of the two numbers is: 80.0
The quotient of the two numbers is: 0.2
The exponentiation of the two numbers is: 1.099511627776E12

Process finished with exit code 0
```

Question 2: Triangle Area

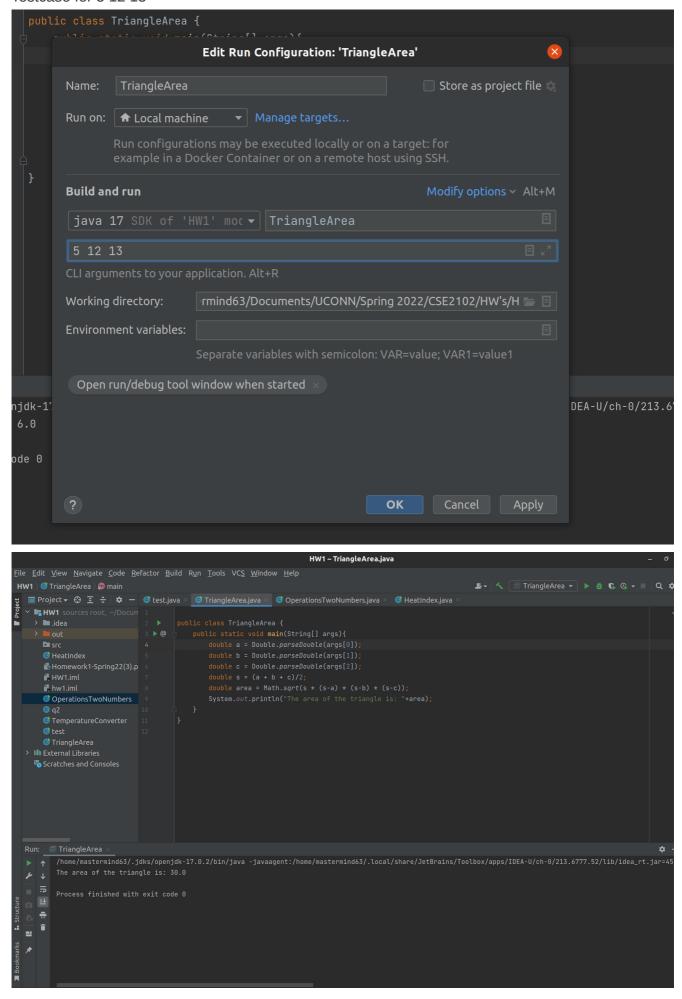
TestCases

• Testcase for 3, 4, 5

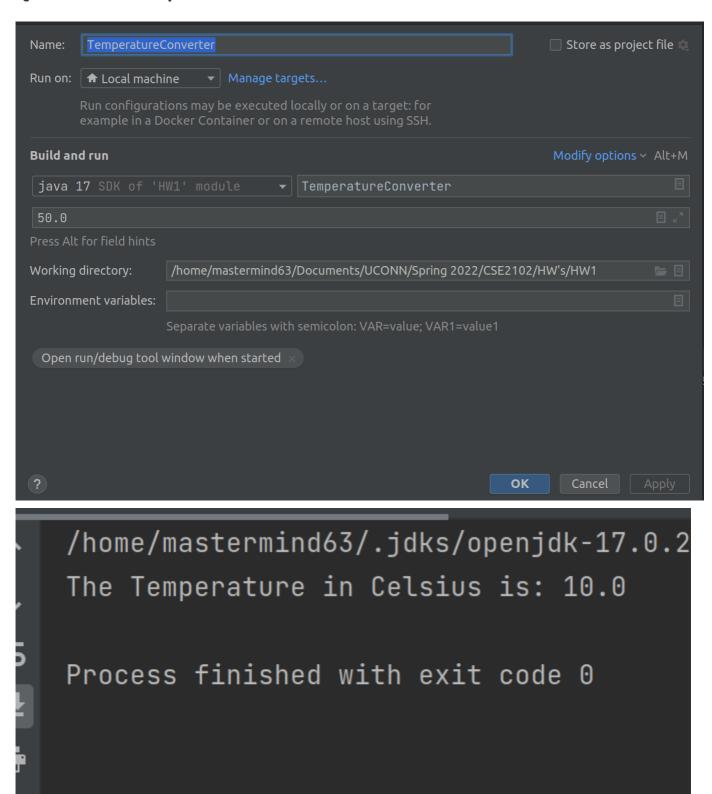
The area of the triangle is: 6.0

Process finished with exit code 0

Testcase for 5 12 13

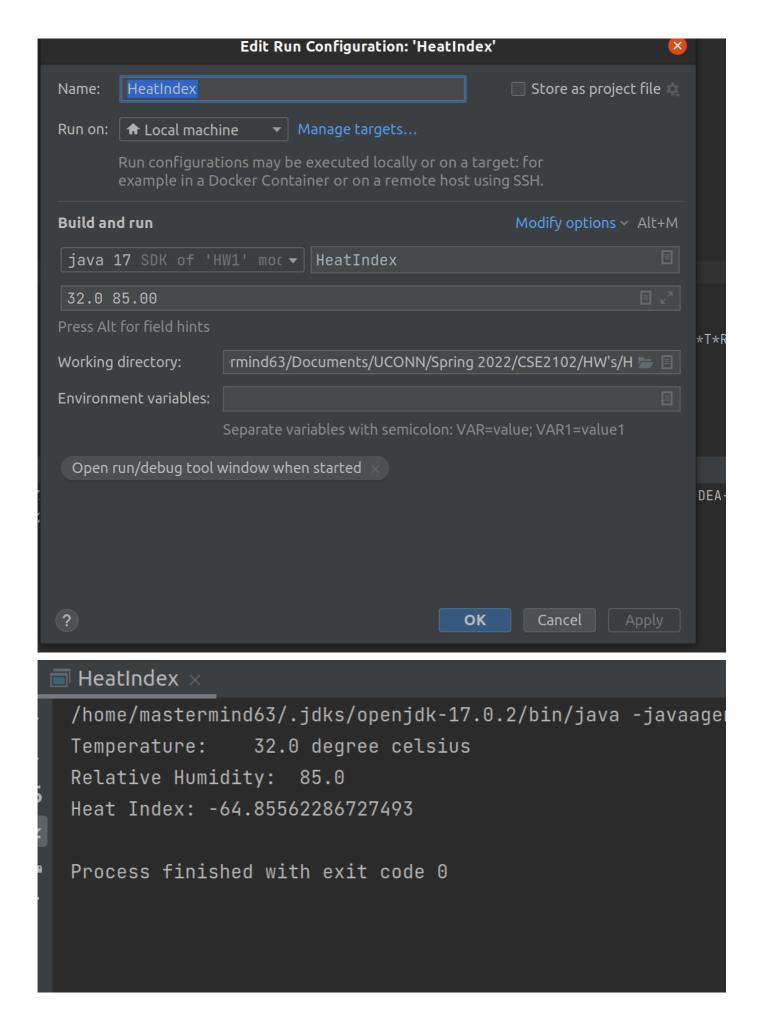


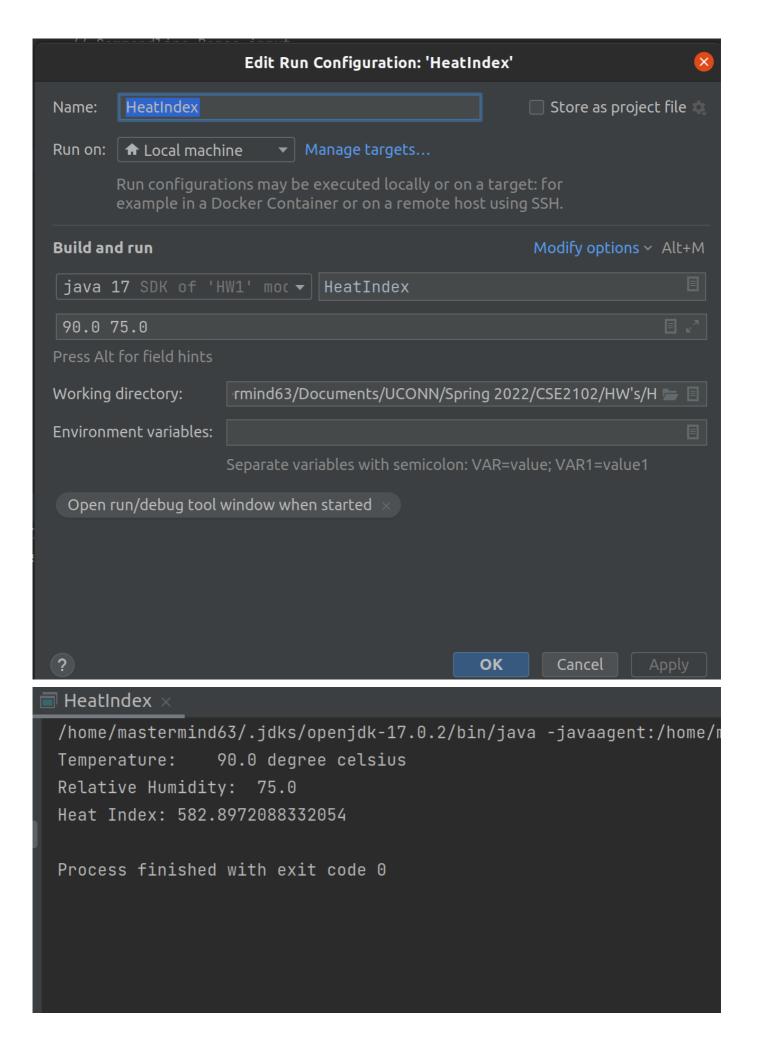
Question 3: Temperature Converter



Name: Temperature	eConverter	🗌 Store as project file 🧠
Run on: 🛕 Local macl	hine ▼ Manage targets	
Run configurations may be executed locally or on a target: for example in a Docker Container or on a remote host using SSH.		
Build and run		Modify options ~ Alt+M
java 17 SDK of 'HW1' moc ▼ TemperatureConverter		
90.0		■ ∠ 7
CLI arguments to your application. Alt+R		
Working directory:	rmind63/Documents/UCONN/Spring	2022/CSE2102/HW's/H 🗁 🗏
Environment variables:		
	Separate variables with semicolon: VA	R=value; VAR1=value1
Open run/debug tool window when started $ imes$		
?	0	Cancel Apply
- remperature converter /		
/home/mastermind63/.jdks/openjdk-17.0.2/bin/java -javaagent:/hom		
The Temperature in Celsius is: 32.222222222222		
Process finished with exit code 0		

Question 4: Heat Index





HeatIndex ×

/home/mastermind63/.jdks/openjdk-17.0.2/bin/java -javaagent:/home/m

Temperature: 90.0 degree celsius

Relative Humidity: 75.0

Heat Index: 582.8972088332054

Process finished with exit code 0

■ HeatIndex >

/home/mastermind63/.jdks/openjdk-17.0.2/bin/java -javaagent:/home/m

Temperature: 90.0 degree celsius

Relative Humidity: 75.0

Heat Index: 582.8972088332054

Process finished with exit code 0

This should be able to be coded as static final since they are non-mutable values and will not be accessed or changed throughout the running of the code.

My code gives a strange number for heat index, despite my checking the formula and logic of the problem.... it should work? If I have time to do so, I will submit a later one that works