Task 1

What do you understand by exceptions

An event that occurs during the execution of a program and disrupts its normal flow. It is an object that describes an error condition and is thrown by code that encounters an abnormal condition.

Task 2

Types of Exceptions

* Checked Exceptions
  + IOException
  + SQLException
  + FileNotFoundException
  + ClassNotFoundException
* Unchecked Exceptions or runtime exceptions
  + NullPointerException
  + ArrayIndexOutOfBoundsException
* Errors
  + OutOfMemoryError
  + StackOverflowError

Task 3

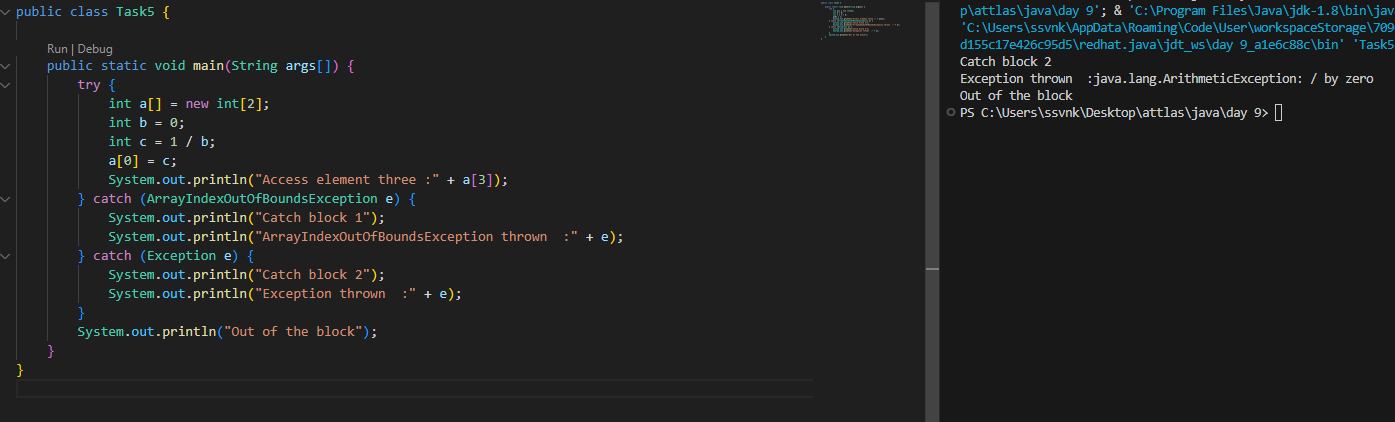


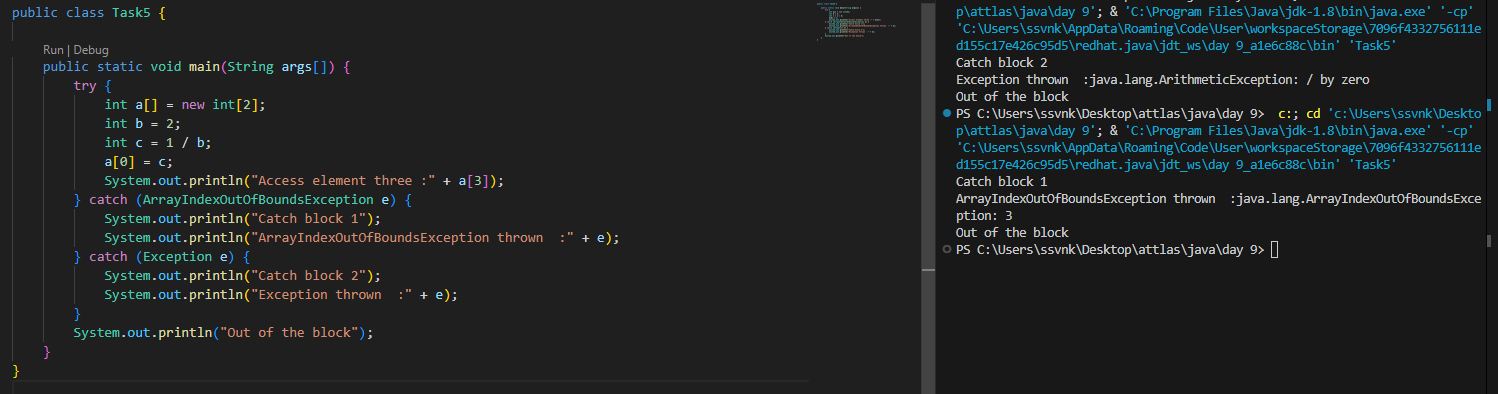
Arithmetic Exception - Unchecked Exceptions or runtime exceptions

Task 4

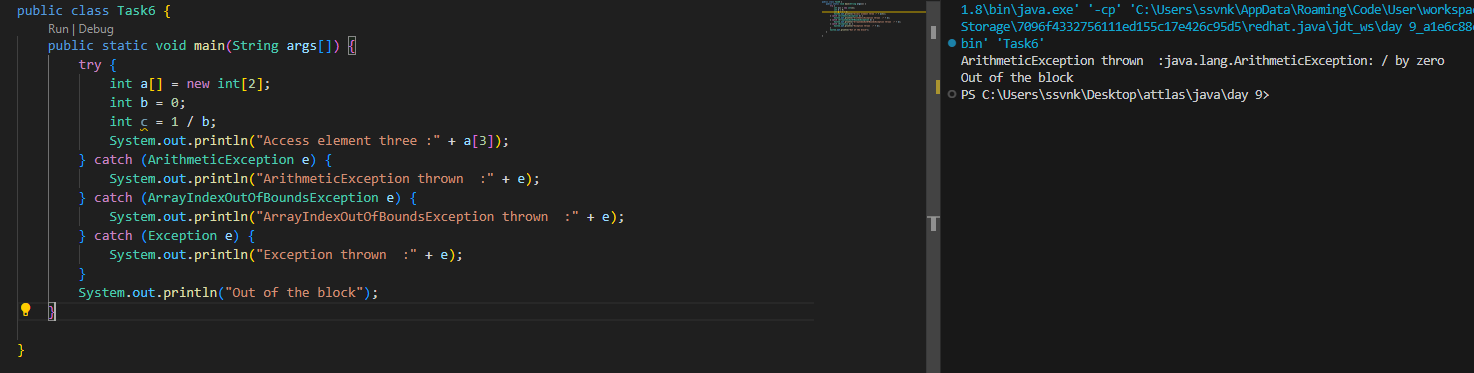
List of checked and unchecked exceptions – ref Task 2

Task 5





Task 6



Output:

ArithmeticException thrown :java.lang.ArithmeticException: / by zero

Out of the block

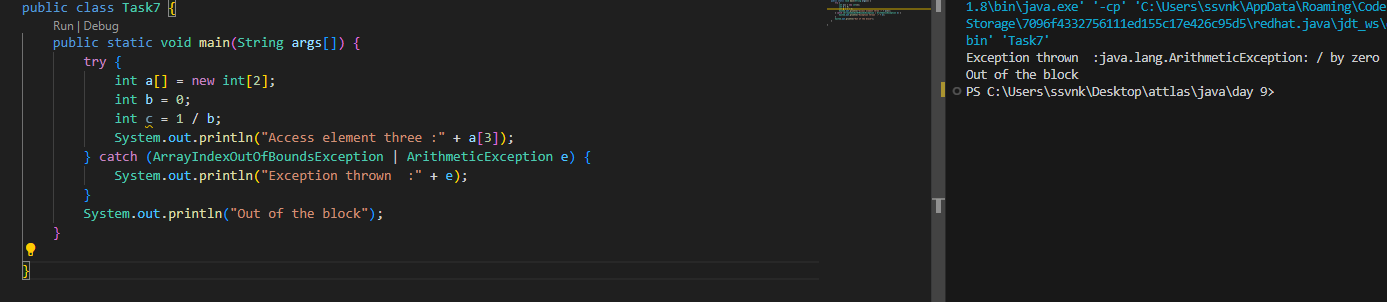
Reason:

int b = 0;

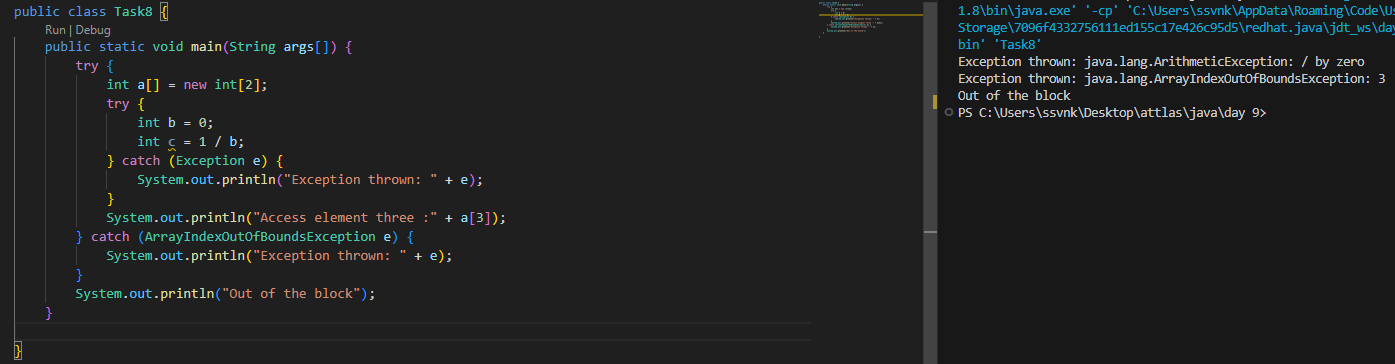
int c = 1 / b;

trying to divide by 0

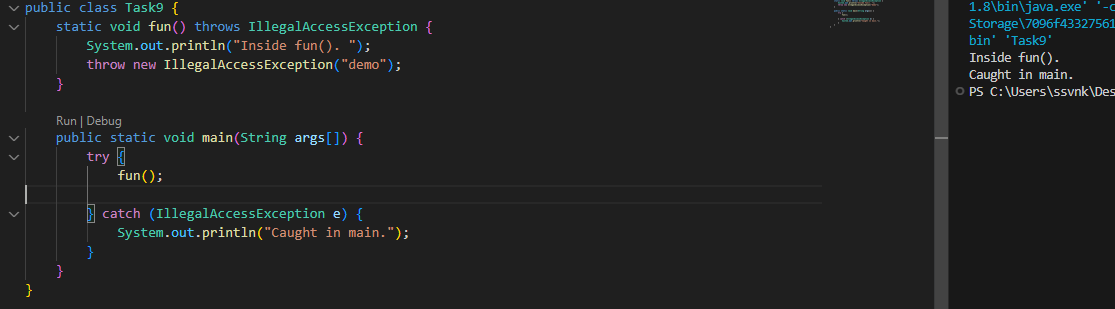
Task 7



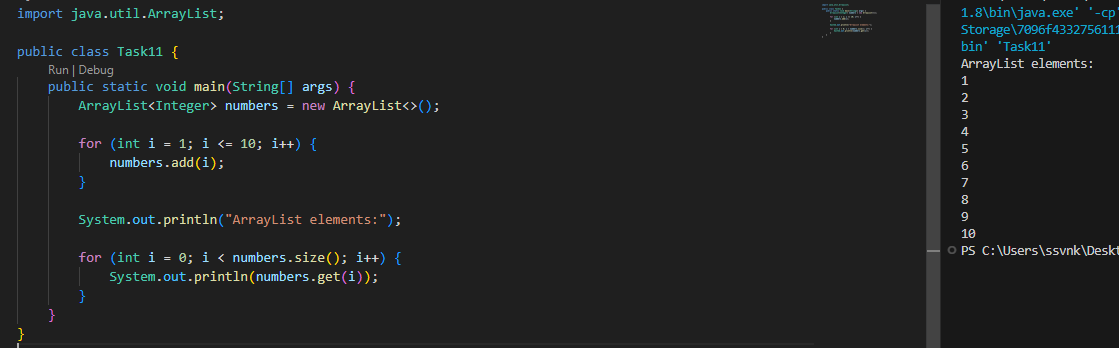
Task 8

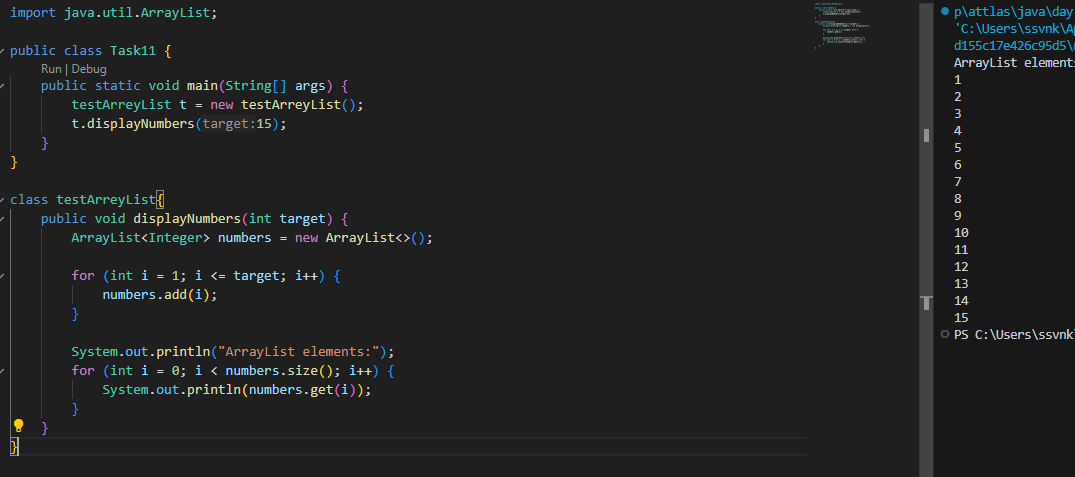


Task 9

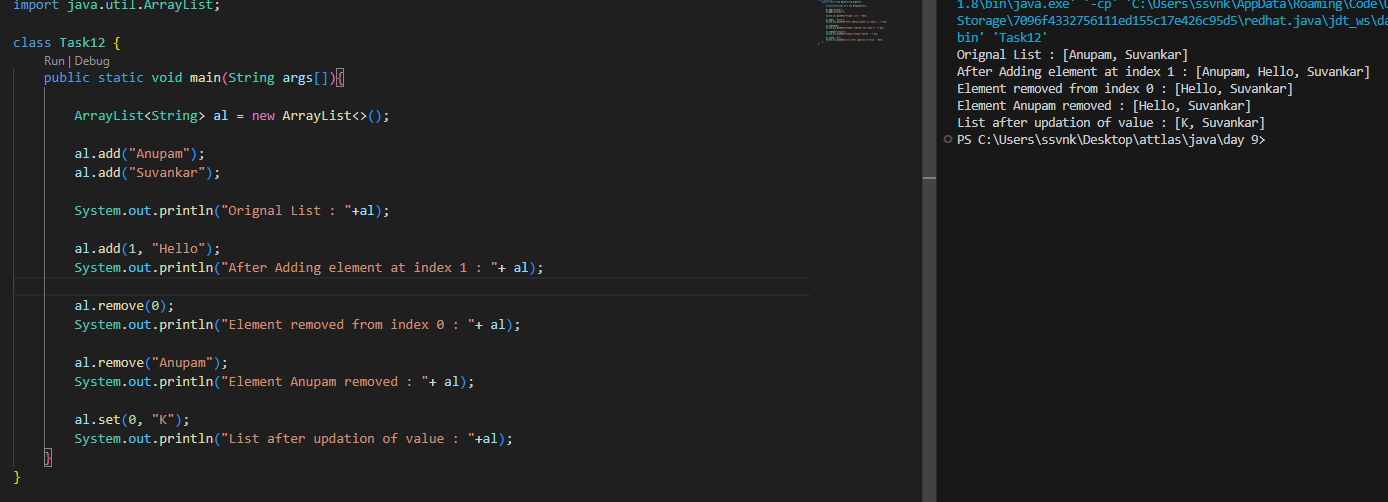


Task 11

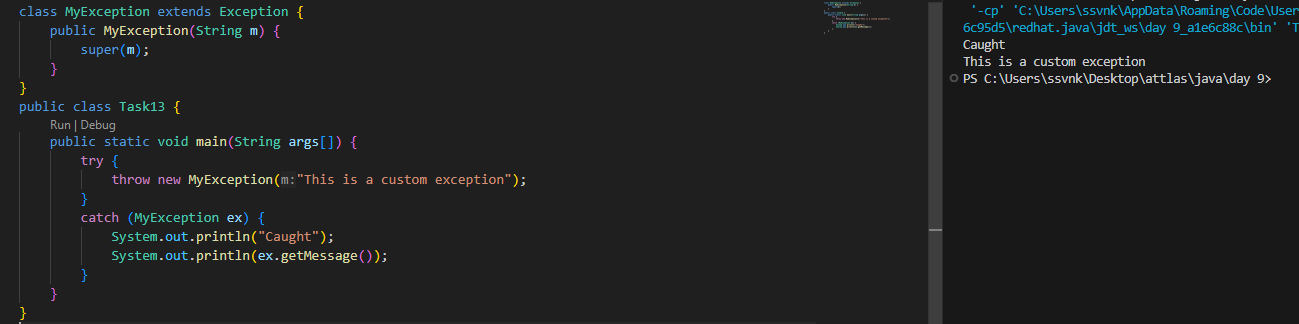




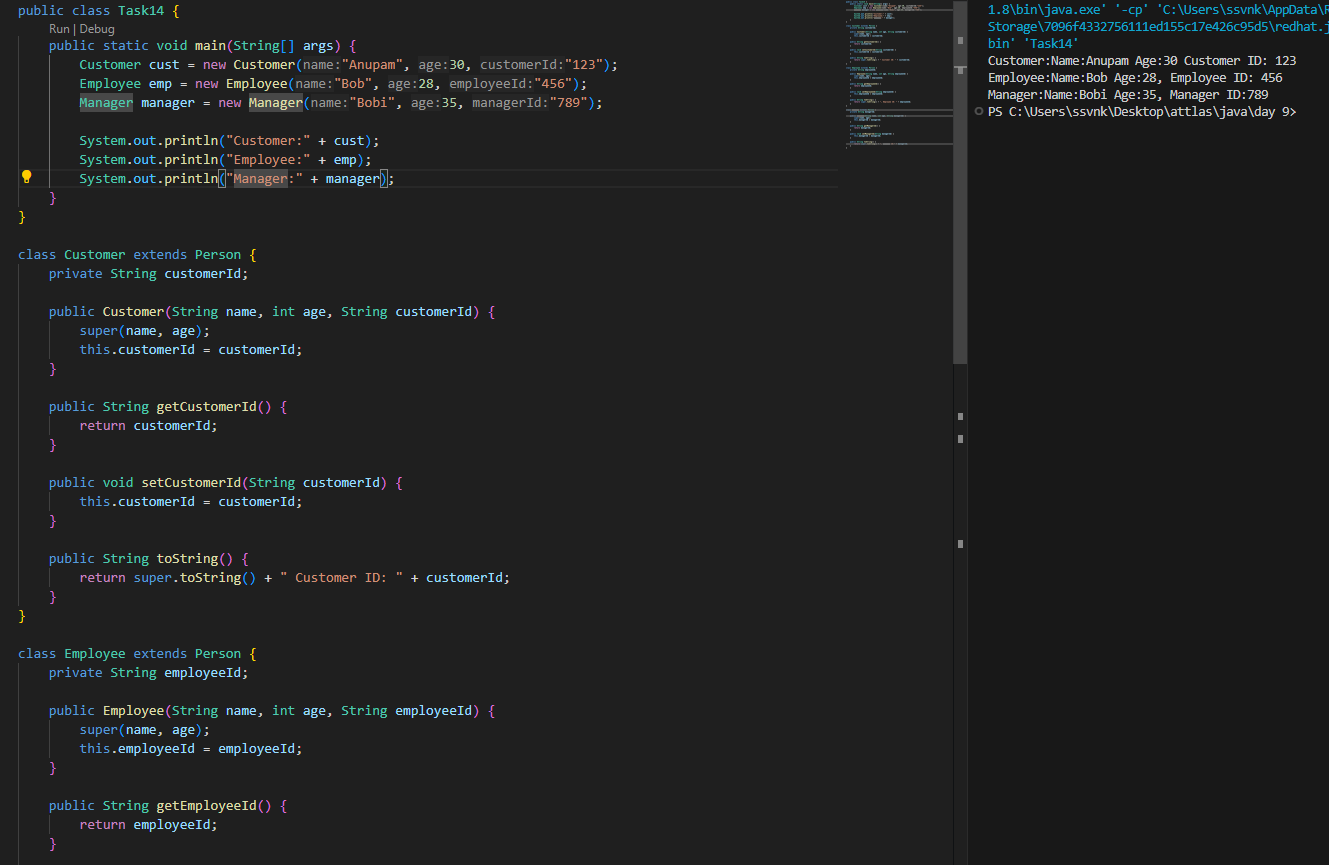
Task 12

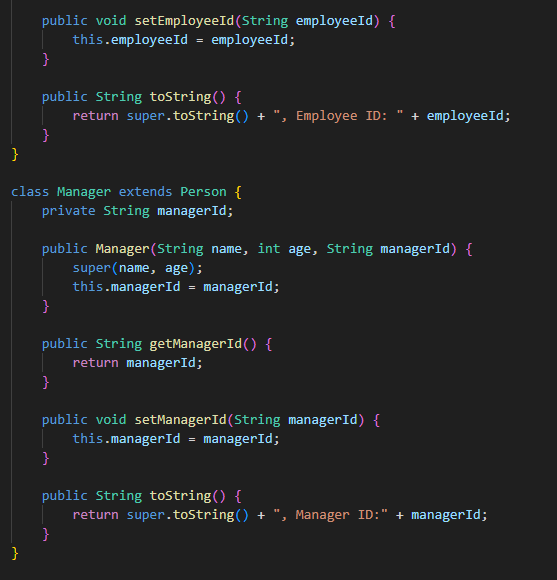


Task 13

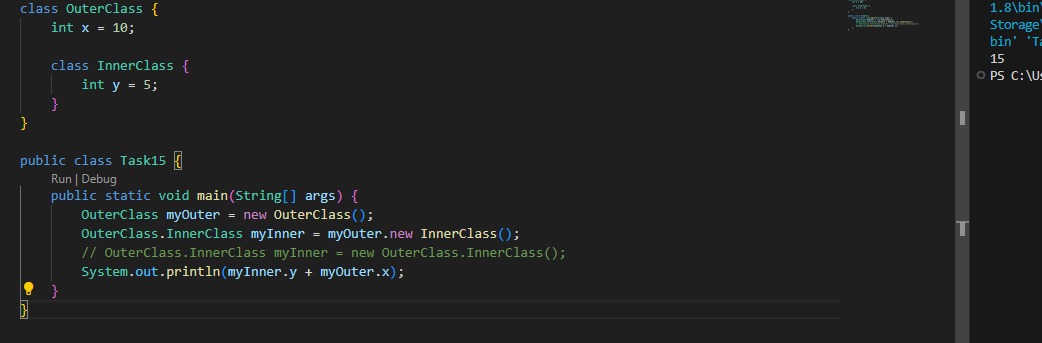


Task 14

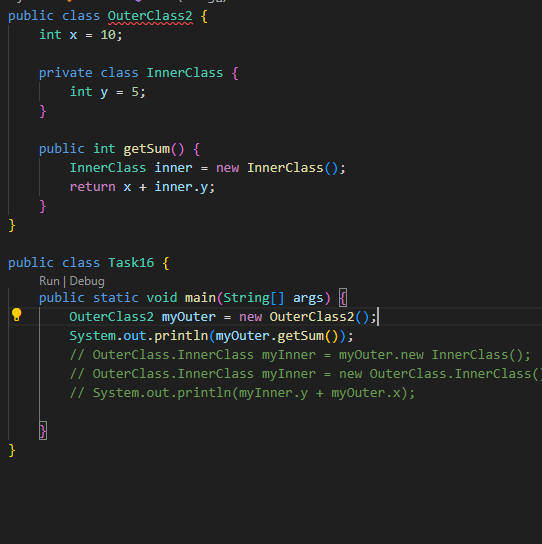




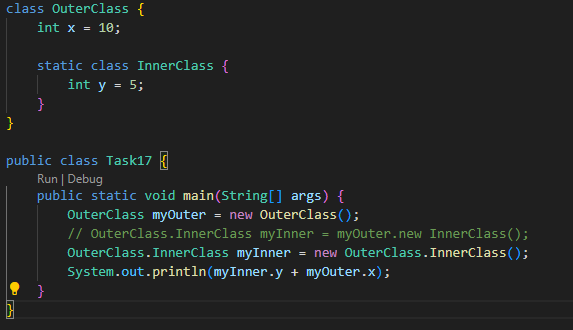
Task 15



Task 16



Task 17



Task 18

