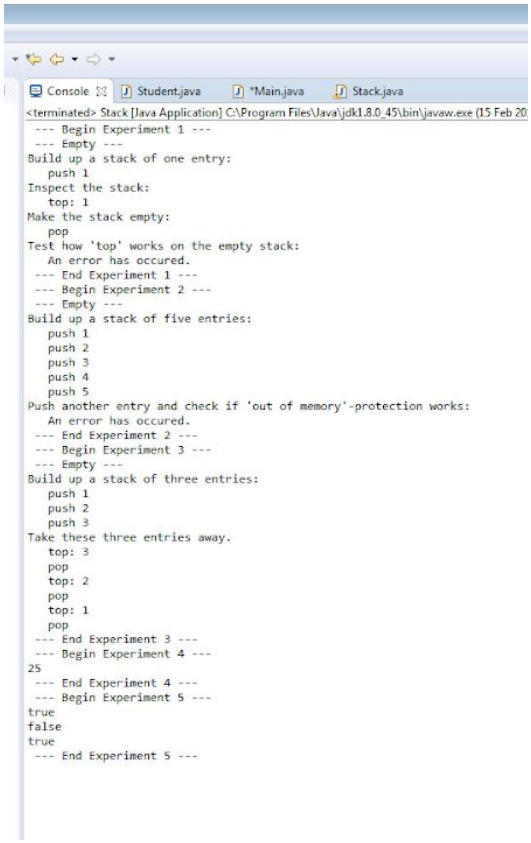
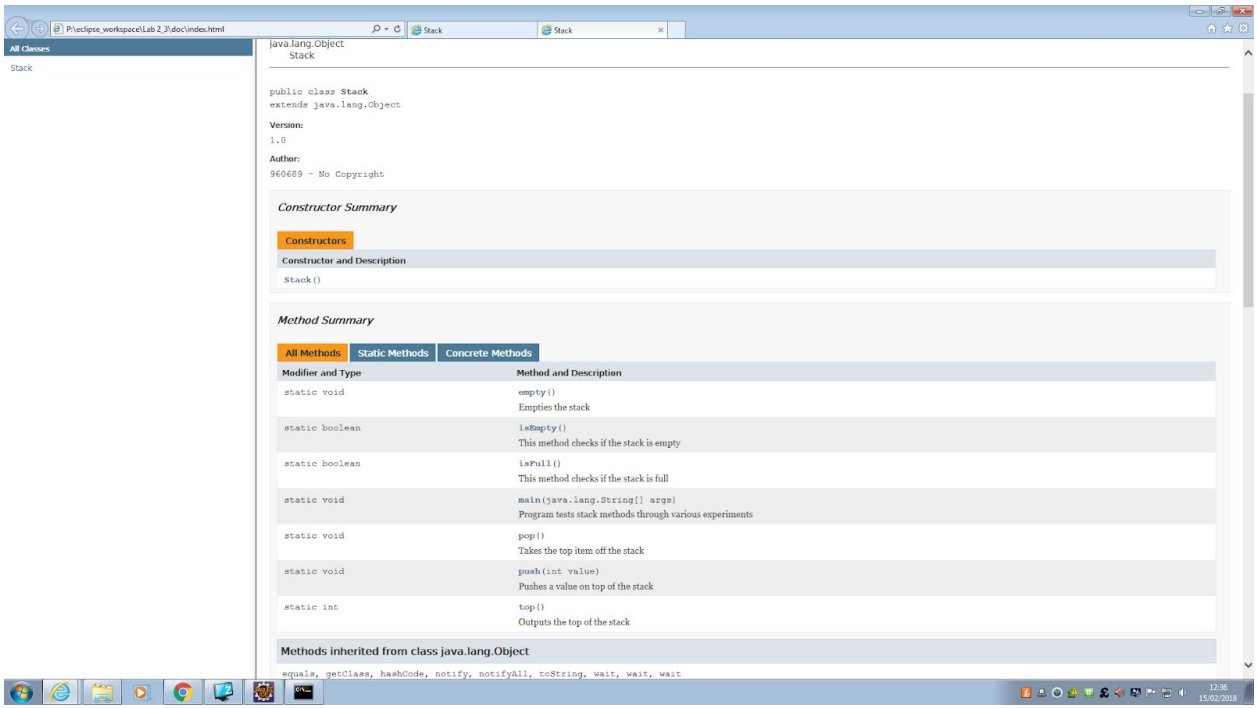
Task 1.1



```
Console  Student.java  *Main.java  Stack.java
<terminated> Stack [Java Application] C:\Program Files\Java\jdk1.8.0_45\bin\javaw.exe (15 Feb 20
 --- Begin Experiment 1 ---
 --- Empty ---
Build up a stack of one entry:
   push 1
Inspect the stack:
   top: 1
Make the stack empty:
   pop
Test how 'top' works on the empty stack:
   An error has occured.
 --- End Experiment 1 ---
 --- Begin Experiment 2 ---
 --- Empty ---
Build up a stack of five entries:
   push 1
   push 2
   push 3
   push 4
   push 5
Push another entry and check if 'out of memory'-protection works:
   An error has occured.
 --- End Experiment 2 ---
 --- Begin Experiment 3 ---
 --- Empty ---
Build up a stack of three entries:
   push 1
   push 2
   push 3
Take these three entries away.
   top: 3
   pop
   top: 2
   pop
   top: 1
   pop
 --- End Experiment 3 ---
 --- Begin Experiment 4 ---
25
 --- End Experiment 4 ---
 --- Begin Experiment 5 ---
true
false
true
 --- End Experiment 5 ---
```

Task 1.2 Part 1



P:\eclipse_workspace\Lab 2_3\doc\index.html

All Classes

Stack

java.lang.Object
  Stack

public class **Stack**
extends java.lang.Object

Version:
1.0

Author:
960689 - No Copyright

Constructor Summary

Constructors

Constructor and Description
Stack()

Method Summary

All Methods | Static Methods | Concrete Methods

Modifier and Type	Method and Description
static void	empty() Empties the stack
static boolean	isEmpty() This method checks if the stack is empty
static boolean	isFull() This method checks if the stack is full
static void	main(java.lang.String[] args) Program tests stack methods through various experiments
static void	pop() Takes the top item off the stack
static void	push(int value) Pushes a value on top of the stack
static int	top() Outputs the top of the stack

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Part 2

public class **Stack**
extends java.lang.Object

Version:
1.0

Author:
960689

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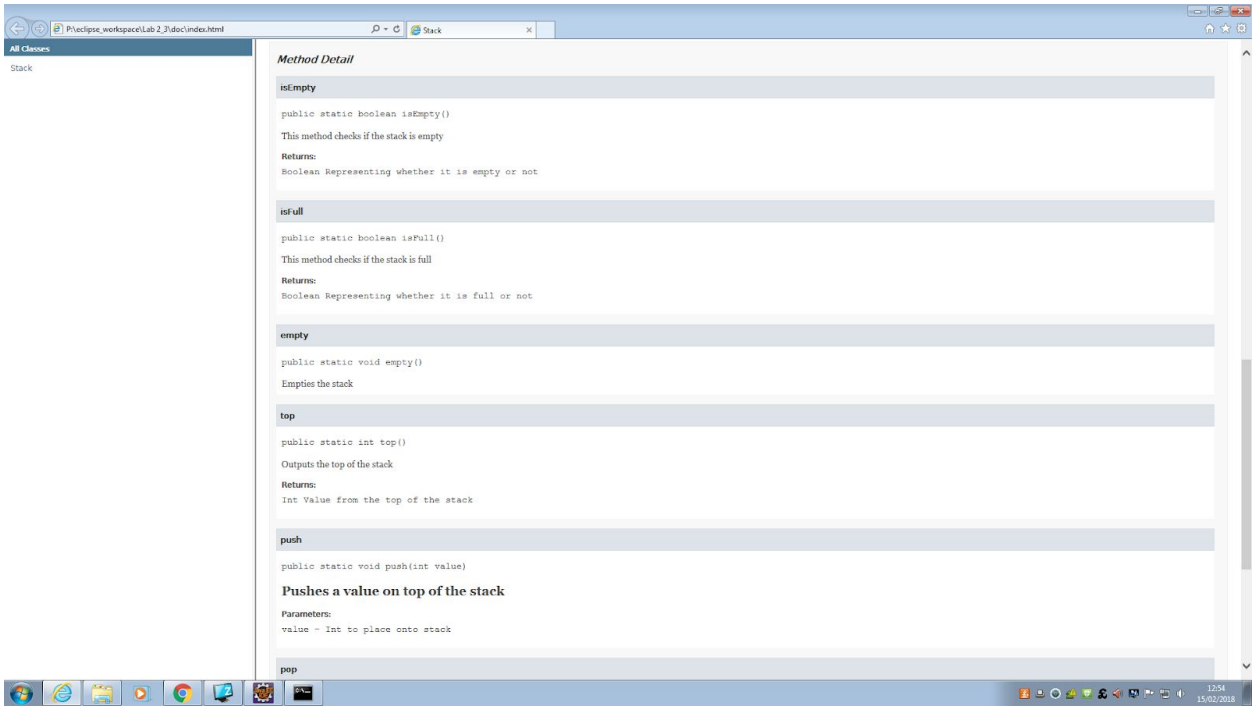

pop

public static void pop()

Takes the top item off the stack

main

public static void main(java.lang.String[] args)

Program tests stack methods through various experiments

Parameters:
args - Command line arguments