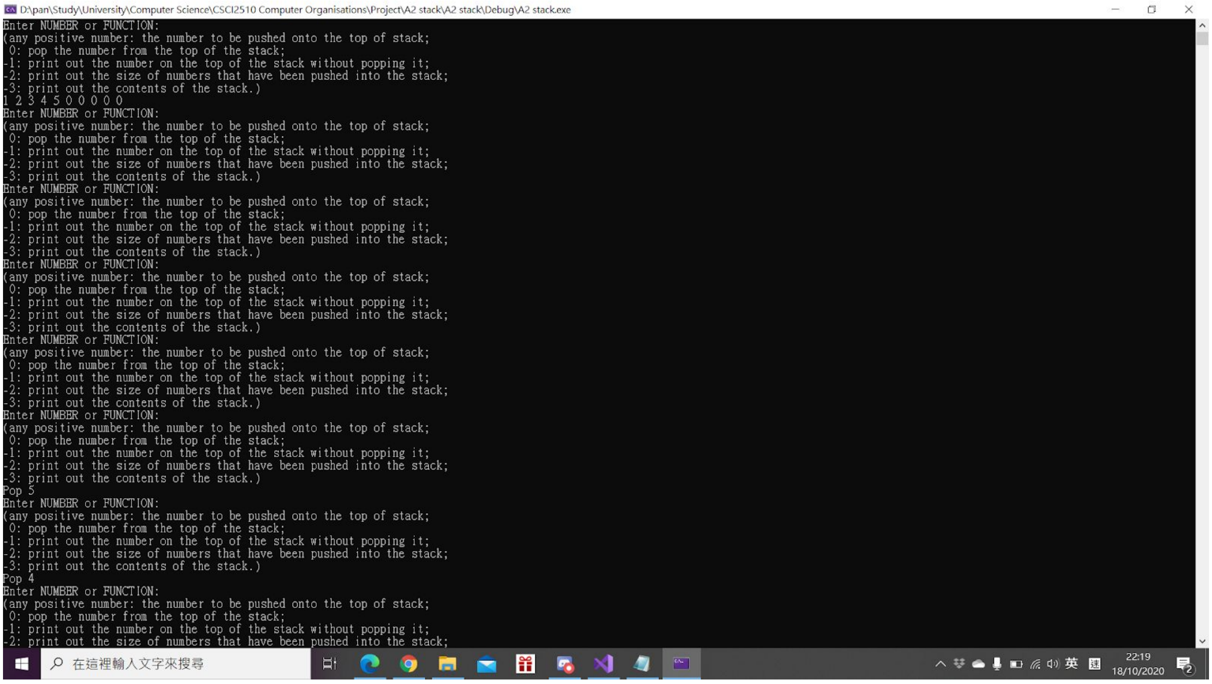
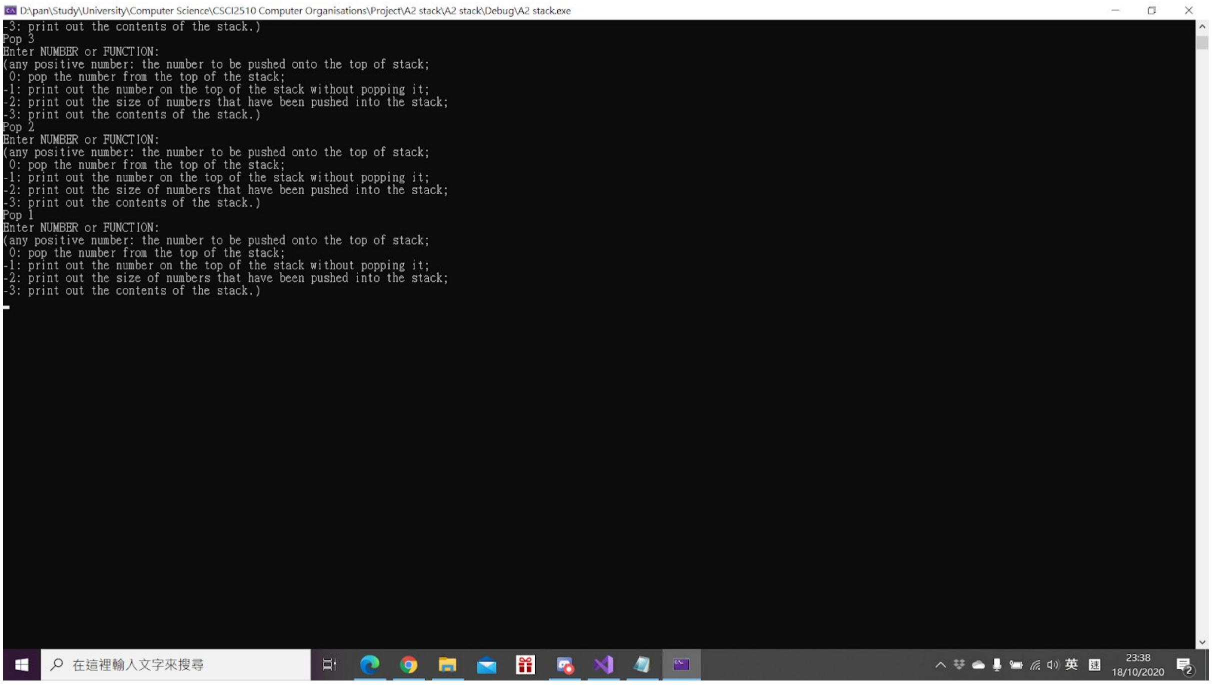
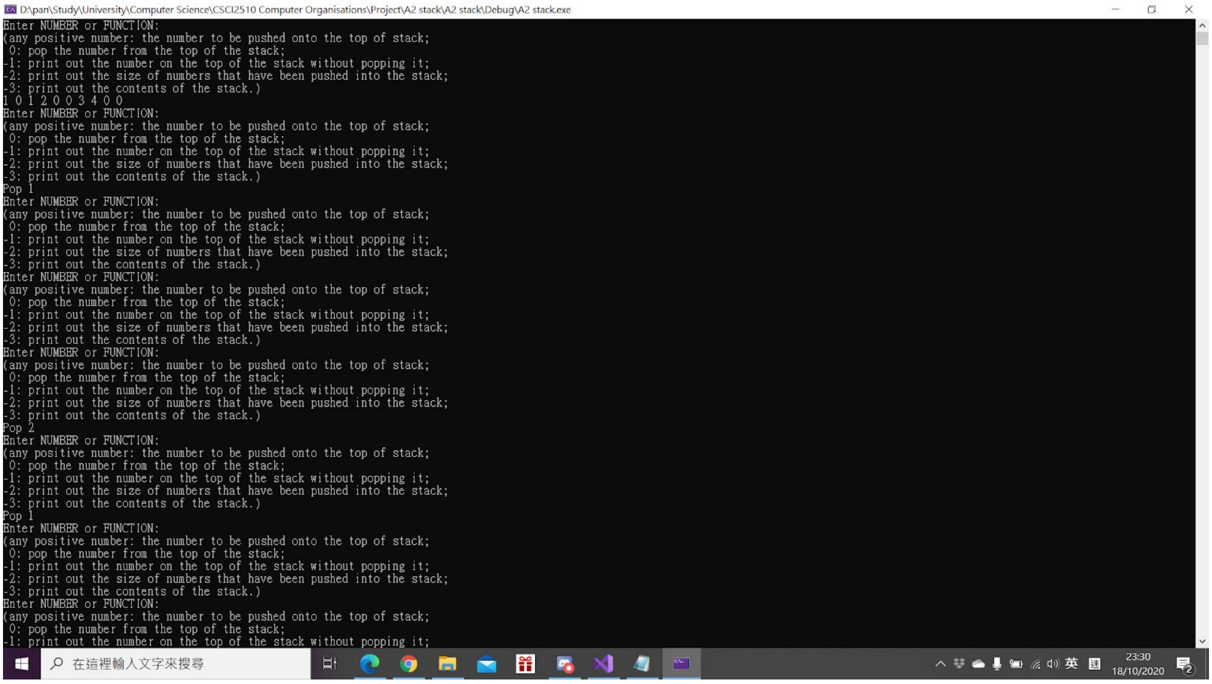
Exercise 1:

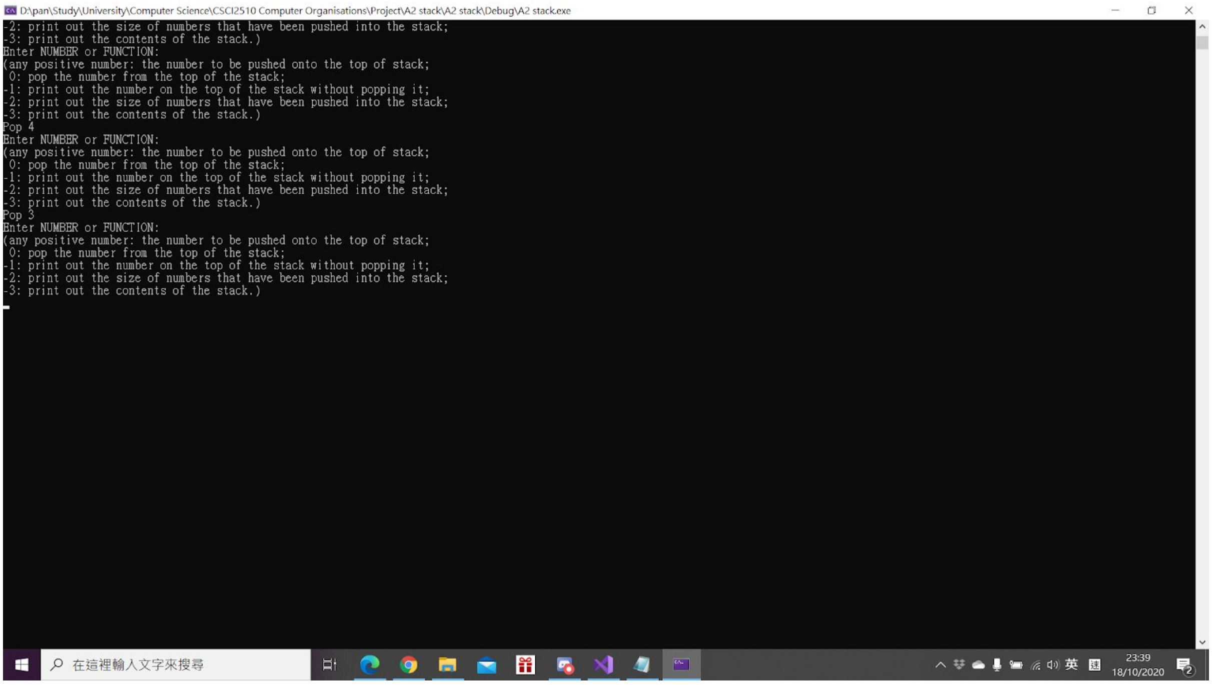
(Exercise 1a) 1 2 3 4 5 0 0 0 0 0





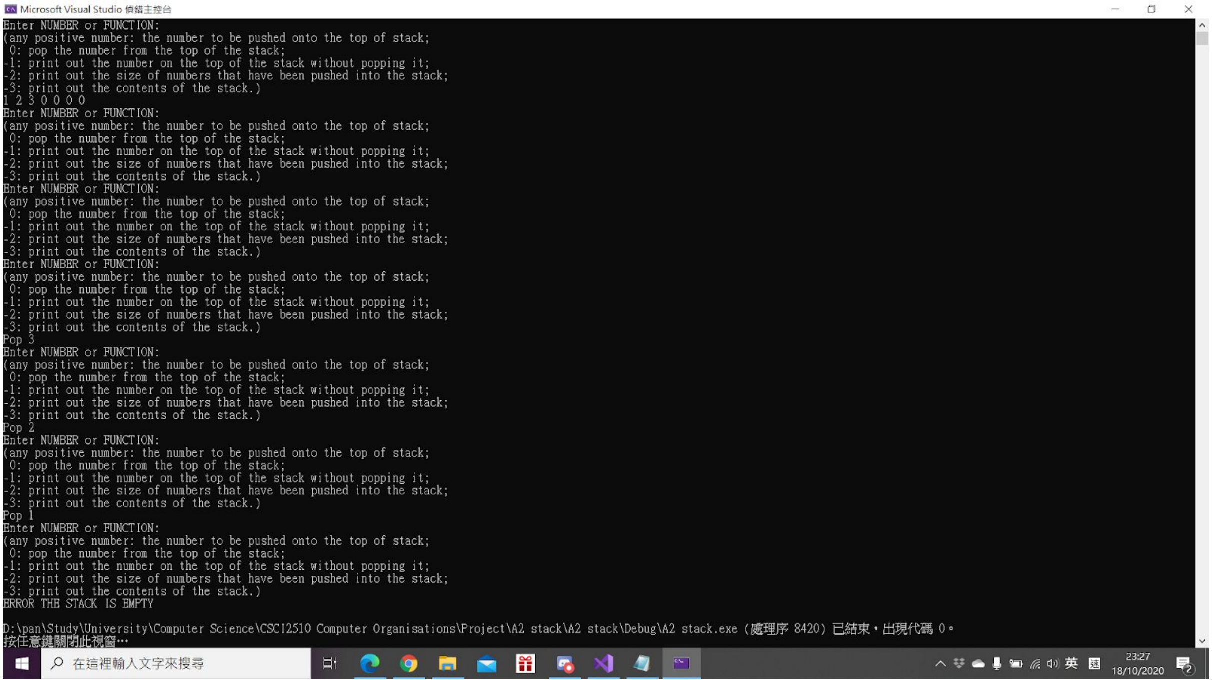
(Exercise 1b) 1 0 1 2 0 0 3 4 0 0



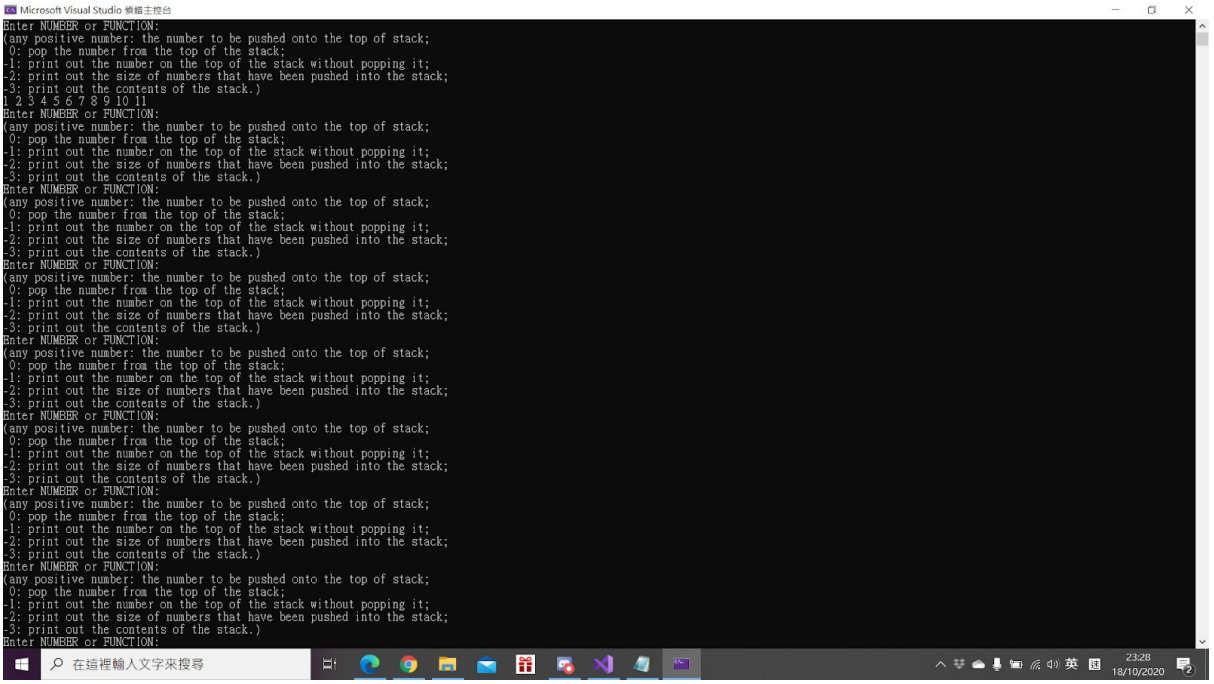


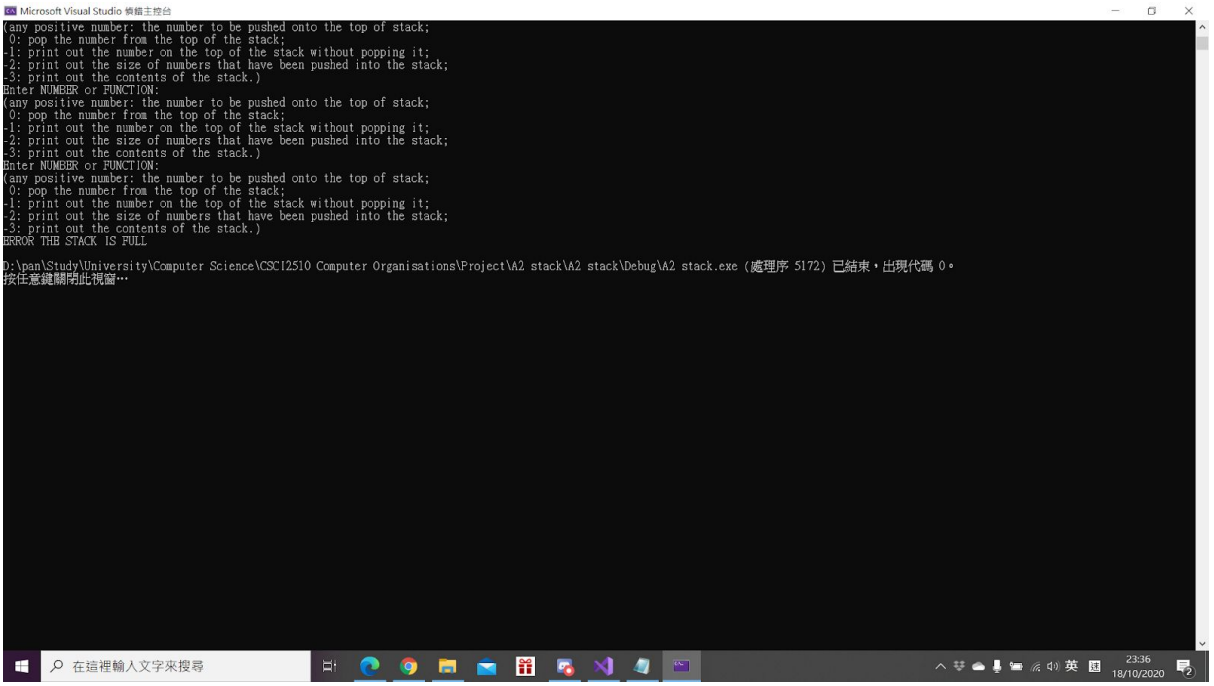
Exercise 2:

(Exercise 2a) 1 2 3 0 0 0 0



(Exercise 2b) 1 2 3 4 5 6 7 8 9 10 11





Exercise 3:

(Exercise 3a) 1 2 3 -1 4 5 -1 0 0 0 0 0 -1 0

Microsoft Visual Studio 偵錯主控台

```
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
1 2 3 -1 4 5 -1 0 0 0 0 0 -1 0
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Stack top is 3
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Stack top is 5
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
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Microsoft Visual Studio 偵錯主控台

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-3: print out the contents of the stack.)
Pop 5
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Pop 4
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Pop 3
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Pop 2
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Pop 1
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Stack is empty
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
 0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
ERROR THE STACK IS EMPTY

D:\pan\Study\University\Computer Science\CSCI2510 Computer Organisations\Project\A2 stack\A2 stack\Debug\A2 stack.exe (處理序 2404) 已結束，出現代碼 0。
按任意鍵關閉此視窗…
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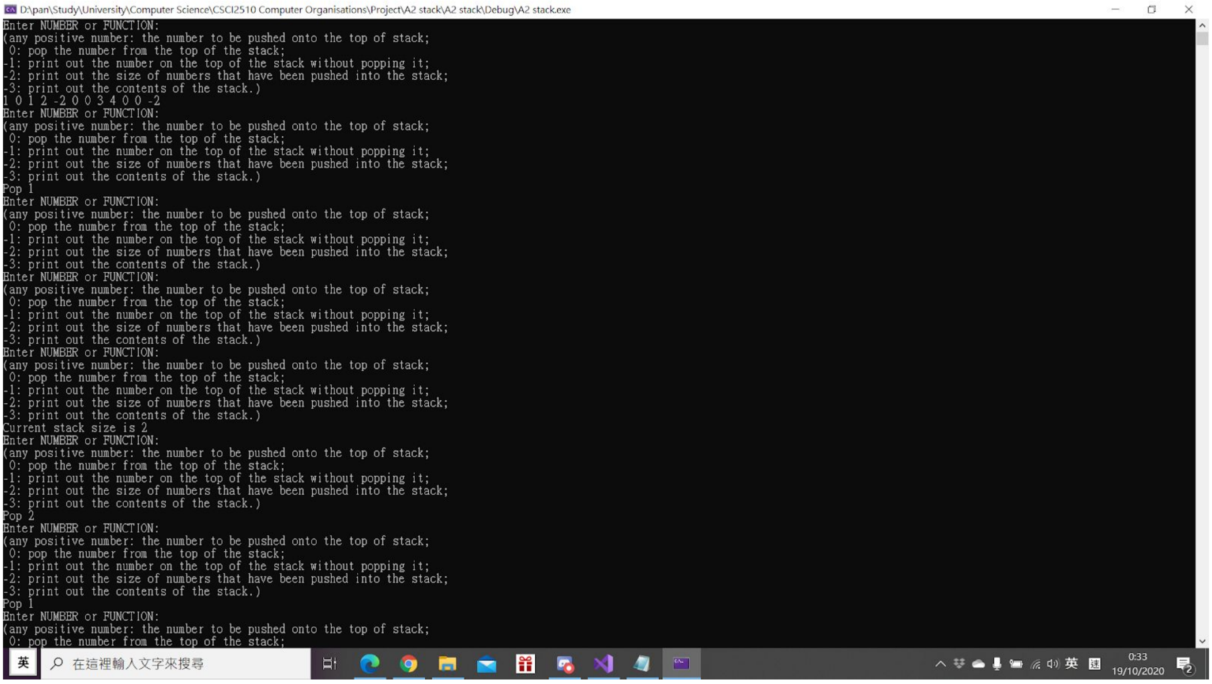
(Exercise 3b)


D:\pan\Study\University\Computer Science\CSCI2510 Computer Organisations\Project\A2 stack\A2 stack\Debug\A2 stack.exe
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
1 0 1 2 -2 0 0 3 4 0 0 -2
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Pop 1
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Current stack size is 2
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Pop 2
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Pop 1
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
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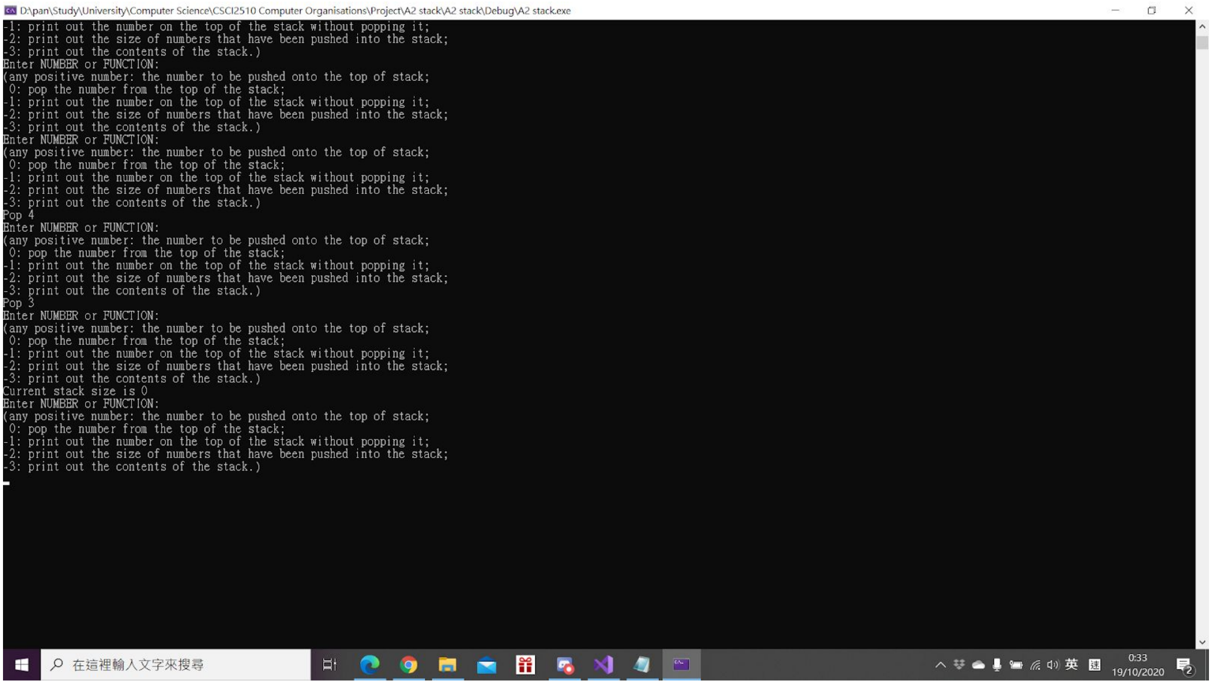
19/10/2020


D:\pan\Study\University\Computer Science\CSCI2510 Computer Organisations\Project\A2 stack\A2 stack\Debug\A2 stack.exe
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Pop 4
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Pop 3
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
Current stack size is 0
Enter NUMBER or FUNCTION:
(any positive number: the number to be pushed onto the top of stack;
0: pop the number from the top of the stack;
-1: print out the number on the top of the stack without popping it;
-2: print out the size of numbers that have been pushed into the stack;
-3: print out the contents of the stack.)
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