

```

1 package main
2
3 import bc.ByteCode
4 import vm.VirtualMachine
5
6 /**
7  * Created by Eric's laptop on 16/04/2017.
8  */
9 class ByteCodeImpl (byte: Byte, args: Int*) extends ByteCode {
10
11     //override def toString: String = byte.toString + " " + args.
12     mkString(" ")
13
14     override val code: Byte = byte
15     //val arg: Int = args(0)
16
17     //def getArgs: Int = {
18     //    val arg: Int = args(0)
19     //    arg
20     //}
21
22     override def execute(vm: VirtualMachine): VirtualMachine = {
23
24         code match {
25
26             case 1 =>
27                 vm.push(args(0))
28
29             case 2 =>
30                 val (int1, virtualMachine1) = vm.pop()
31                 val (int2, virtualMachine2) = virtualMachine1.pop()
32                 virtualMachine2.push(int1 + int2)
33
34             case 10 =>
35                 val (int, virtualMachine) = vm.pop()
36                 vm.push(int)
37                 vm.push(int)
38
39             case 12 =>
40                 val (int, virtualMachine) = vm.pop()
41                 println(int)
42                 vm
43         }
44     }
45
46     //val (int1, virtualMachine1) = vm.pop()
47     //val (int2, virtualMachine2) = vm.pop()

```

File - E:\SDP\SDP-exs-cws-ChungHoiCHIU\coursework\cw-two\src\main\scala\main\ByteCodeImpl.scala

```
49         //vm.push(int1+int2)
50     }
51
```