## CSC 230-01 Modern Prog Applications Spring 2018

## Assignment 4

### What to hand in

Create a folder called "Assignment_4". Inside the folder, create a folder for each program and deposit the source code to the corresponding folder. Use packing software to pack "Assignment_4" to a packed file, such as "Assignment_4.zip" or "Assignment_4.tar". Submit the packed file through the blackboard.

### Due Date

12:00 midnight, Feb. 26, 2017.

### Program 1: Complete the following code

```
1. import java.util.Scanner;
2.
3. public class Freeze
4. {
5.     public static void main(String args[])
6.     {
7.         Scanner s = new Scanner(System.in);
8.         float temp;
9.
10.         System.out.println("Enter temperature:");
11.
12.         //if the temperature is lower than zero, print
    "Below Frozen Point", otherwise, print "Abover Frozen Point"
13.         }
14.     }
```

### Program 2: Complete the following code

```
1. // Student2.java
```

```java
2.       public class Student2
3.       {
4.      String name;
5.      int age;
6.
7.      // constructor
8.      public Student2()
9.      {
10.         }
11.
12.         public Student2(String name, int age)
13.         {
14.             this.age = age;
15.             this.name = name;
16.         }
17.
18.         // accessor
19.         public String getName() {return name;}
20.
21.         public boolean isAbleToDrink()
22.         {
23.             // put your code here
24.         }
25.
26.         // mutator
27.         public void setAge(int age)
28.         {
29.             this.age = age;
30.         }
31.
32.         public void setName(String name)
33.         {
34.             this.name = name;
35.         }
36.     }
37.
38.     // StudentTest2.java
39.     public class StudentTest2
40.     {
41.         public static void main(String args[])
```

```
42.            {
43.                    Student2 s = new Student2("David",
    21);
44.
45.            if (s.isAbleToDrink())
46.                    System.out.printf("%s is able to drink\n",
    s.getName());
47.            }
48.    }
```

**Program 3:** Write a Java program, ask the user to enter an integer number from keyboard, calculate the summation from 1 to this integer number, for instance, if you enter 100 from keyboard, the program should calculate the summation from 1 to 100 and print 5050 on the screen.

**Grading Criteria**

1. 40%, be able to be compiled without compile errors.

2. 30%, be able to run and generate the expected outputs.

3. 20%, comments.