Problem 1: Java programming basics

1-1)

```
import java.util.*;
public class Problem1 {
  public static void main(String[] args) {
      int x = console.nextInt();
```

```
1-2)
                               In particular, floating-point values should have a decimal and strings should be surrounded by double quotes. <----- overlooked instruction in the question
a) 5.75
b) 5
c) 27.0
d) xy
                               d. "xy"
e) 5
f) true
g) 14
                               // type cast
h) 12
i) 13CS
                               i. "13CS"
j. "CS112"
                                                        ????
j) CS112
```

https://www.geeksforgeeks.org/gfact-49-print-integer-between-strings-in-java/

Problem 2: Conditional execution

2-1)

- a) Terriers Crimson Let's go!
- b) Terriers
 Crimson
 Let's go!
- c) Bears Let's go!
- d) Big Green
 Big Red
 Bulldogs
 Let's go!
- e) Huskies Let's go!
- f) Big Green Bulldogs Let's go!

* b can never be lower than or equal to c, and this print statement shown

* above will not be executed for any set of inputs.

*/

Problem 3: Static methods

3-1

variables that belong to main()

x	у
1	3
4	27
	27

// show how the variables changed over time,
not just the starting/ending values

variables that belong to compute()

×	у
1	3
4	2
3	3
6	0
3	4
6	2

output (the lines printed by the program)

- 1 3
- 4 2
- 4 3
- 6 0
- 4 3
- 6 2
- 4 27

```
3-2)
public static double bmi(int w, int h) {
     double result = (720.0 * w) / (h * h);
     return result
}
Problem 4: Loops
4-1)
for (int i = 0; i < 2022; i++) {
   System.out.println("Twenty two!");
}
4-2)
public static void countDown(int n) {
    int count = n;
    while (count >= 1) {
        System.out.println(count);
        count--;
   }
}
4-3)
for (int i = 1; i <= 3; i++) {
    System.out.println("** " + i + " **");
    for (int j = 3; j >= i; j--) {
        System.out.println(i + " " + j);
    }
}
```