**Invalid case of method overloading:**  
When I say argument list, I am not talking about return type of the method, for example if two methods have same name, same parameters and have different return type, then this is not a valid method overloading example. This will throw compilation error.

1. int add(int, int)
2. float add(int, int)

## Three ways to overload a method 1. Number of parameters.

add(int, int)

add(int, int, int)

2. Data type of parameters.  
For example:

add(int, int)

add(int, float)

3. Sequence of Data type of parameters.  
For example:

add(int, float)

add(float, int)

**Method return type doesn’t matter in case of overloading.**