## Method 1

Here, I used public static double getDouble(Scanner myScan)

This is a method named getDouble where Scanner myScan is the parameter (asking for a scanner input), and having double means it expects a double value.

Modifiers : public Return type : double Method Name : getDouble Param List : Scanner myScan

Signature : getDouble(Scanner myScan)

```
public static int getInteger(Scanner myScan) {
    while(!myScan.hasNextInt()) {
```

Modifiers: public Return type: int

Method name: getInteger Param list: Scanner myScan

Signature : getInteger(Scanner myScan)

```
public static void main(String [] args) {
```

Modifiers: public
Return type: void
Method name: main
Param list: String [] argos
Signature: main(String [] argos)

```
public static String getStringName(Scanner myScan) {\
```

Modifiers : public Return type : String

Method name : getStringName Param list : Scanner myScan

Signature: getStringName(Scanner myScan)

- 1. The benefits of using a method are correctness (less chance to miss some character or semicolon if you just call it instead of typing it again) and saving time. Also, it looks better
- 2. Definiting a method is done within the same class but outside the main method. The syntax is like so, and calling it is like so.

```
a. access_modifier return_type method_name(parameters) {
b. // code block
c. }
return_type result = method_name(arguments);
```

- 3. Return type of main method is void, because it doesn't need to return a single value, but a bunch of them
- 4. Not writing a return typein a value returning method is that the compiler will have an error. If it's not specified then it cant be called in places where it's supposed to expect a specific return
- 5. Yes you can have return statement, but it's not the same as other methods in that it doesnt return value, and can be used to exit the method.
- 6. Returning a value in void method can not be done because its "void" method.
- 7. Arguments are passed to a method by its value, so its a copy of the value rather than the original argument being passed. It's like branching off, modifying it, then returning a diff value. It doesn't modify the original value.