Structure of Java Program

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Thursday, August 27, 2020
                            10:08 PM
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```
Import section
```

Package declaration section // if needed

Interface declaration & definition section // if needed

```
Public class class-name
```

```
static variable declaration; // if needed
public static void main(String s [])
     body of main()
```

} //end of main class

other static function definitions //if needed

other class definitions. // if needed

Always keep data as private.

- Guidelines to design a class: -
 - Always initialize data. Don't use too many basic types in a class.
 - Use a standard form for class definition.
 - Use descriptive names to the class and its members.

public class demo

A simple class in Java:

```
public static void main(String s[])
         ----- // body of main()
```

As Java is an object oriented language, any no. of classes can be defined in a

Declaration of Objects

program. If a class is defined, user has to create an object for that class to make use of the data. In fact it is a two step process. First you must declare a variable of the class type. This variable doesn't define an

Second, we create a physical copy for the class and assign the address to the reference. To do this, use ,new' keyword. The new keyword dynamically allocates

memory for an object and returns the address. Ex:

B = new Box(); //instantiating object

Box B; //creating a reference

public static void main(String s[])

object. Instead, it is simply an object reference.



Example:

Public class demo

```
test t = new test(); // instance for class test is created t . display();
} // end of main class
```

class test

```
int a;
public void display()
     a = 101;
     System.out.println( ,the value of a is <...'+a);
```

Note:

} // end of other class.

1. If a program execution is over, the corresponding objects created will

- automatically be destroyed by the built-in garbage collector of JVM which will be invoked once the objects go beyond the scope of the programmer.
- 2. If we do not initialize the instance variables then they automatically assigned certain values.
- o For numeric data, a zero is assigned.
 - o For objects & strings, a null is assigned.
 - o For Boolean data, a false is assigned.