non-static versus static members:

1. These members belongs to Object and once object is created it will be loaded into the object

2. Syntax: referenceVariable.objectMemberName

3. Every time we create an object a copy of non-static member will get loaded into it

4. Every object has its own copy of non-static memeber. Hence making changes to non static member of

one object will not create any impact on non static member of other object

Static Memeber:

1. These members belonds to class common memory and is loaded in to the common memory only once.

2. Syntax to access that is ClassName.Membername

Example 1:

```
public class A {

static int i = 100;

 int j = 500; //non static

public static void main(String args[]) {

A a1 = new A();

System.out.println(a1.j);
```

```
 System.out.println(A.i);


}


}
```

Output:

500

100

Example 2:

```
public class A {


static int i = 100;


 int j = 500; //non static


  public static void main(String args[]) {


  A a1 = new A();
     A a2 = new A();


System.out.println(a1.j);


 System.out.println(a2.j);
```

```
 System.out.println(A.i);


}


}
```

Ouput:

500

500

100

Example 3:

```
public class A {


int i = 10; //non static


public static void main(String args[]) {


 A a1 = new A();


System.out.println(a1.i);


a1.i = 100;


System.out.println(a1.i);
```

```
A a2 = new A();


System.out.println(a2.i);




 }


}
```

Output:

10

100

10

Example 4:

Access static variables can be done in 3 ways:

1. ClassName.MemberName

2. StaticMemberName

3. referenceVariable.MemberName (Should not be done---Adviced) It will give you warning, and compile

auto corrects the mistake by replacing a1.i with A.i

```
public class A {


static int i = 10; //non static
```

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



System.out.println(A.i); //Adviced


 System.out.println(i);



 A a1 = new A();


System.out.println(a1.i); //wrong warning vs error A.i


}


}
```

Output:

10

10

10

What are methods() in java ?

_____

Methods helps us to develop the application in module wise manner. Methods with execute only when we

call it.

If a method is non static then we should create object and only then call that. But if the method is static the we call that with class name, here object creation is not required.

Example 1:

```
public class A {

public static void main(String args[]) {

A a1 = new A();
}

public void test(){
System.out.println("From test");
}
}
```

Output:

From test

Example 2:

```
public class A {
```

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




A.test();

}


public static void test(){

System.out.println("From test");

}

}
```

Output:

From test