

What is a class ?

Class is a factory that generates objects for us, when ever a class receives a request through new

keyword

What is new keyword in java ?

1. new keyword helps us to send a request to the class asking the class to create an object
2. Once class creates an object new keyword will get the address of that object and will store that in reference variable.

Syntax to create reference variable:

```
ClassName variableName = new ClassName();
```

Examples 1:

Structure of class in java

```
class A {
```

```
}
```

Structure to request a class to create an object:

```
A a1 = new A();
```

Example 2:

```
public class A {
```

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

```
        System.out.println("pankaj sir academy");
```

```
    }
```

```
}
```

Ouput: pankaj sir academy

Example 3:

```
public class A {
```

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

```
        A a1 = new A();
```

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

```
    }
```

```
}
```

Output:

A@3caeaf62

Example 4:

```
public class A {
```

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

```
        A a1 = new A();
```

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

```
    }
```

```
}
```

Output:

a1

What are non static members ?

1. Non static members gets loaded into the object when an object is created
2. These members belongs to the object.
3. In java object is also called as instance, and non static members are also called as instance

members

What are static members?

These members belongs to class, and are loaded into the common memory of the class only once

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