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class and an object in java

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What is a class ?

Class is a factory that generates objects for us

How do we request a class to create object?

Using "new" keyword in the program we send a request to the class to create object and class creates

those objects on temporary memory RAM

Explore new Keyword in depth:

1. new keyword in java sends a request to class asking for object to be created on RAM memory
2. Once the class creates an object "new" keyword gets its address and stores that in a special variable called as reference variable.

Note: All keywords in java should be written in lower case

For java practise use this link: <https://www.jdoodle.com/online-java-compiler/>

Example 1:

```
public class A {
```

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

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

```
A a2 = new A();
```

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

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

```
}
```

```
}
```

Output:

A@7960847b

A@6a6824be

Example 2:

```
public class A {
```

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

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

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

```
}
```

```
}
```

Output: a1

What is the difference between static versus non static keyword in java?

non static:

1. These members belongs to the object and when ever an object is created only non static memebrs will get loaded into it

static:

1. These are the members that belongs to the class and is loaded into the class common memory.