CN4001/ CD4001
Software Development
Topic 2: Java and NetBeans Part 3

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Hello World!

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Hello world

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System.out.print("Hello world");

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Java instruction to print to the screen

System.out.**print(**"Hello world"**);**

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System.out.print("Hello world");

Instructions in Java must end in ;

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The print command is sent to a special **output object**

System.**out**.print(**"Hello world"**);

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System.out.print(**"Hello world"**);

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System.out.print("Hello world");

```
System.out.print("Hello ");
System.out.print("world");
```

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Notice space within speech mark

```
System.out.print("Hello ");
System.out.print("world");
```

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NAME

```
System.out.print("Hello ");
System.out.print("world");
```

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main

```
System.out.print("Hello ");
System.out.print("world");
```

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main

System.out.print(**"Hello world"**);

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```java
public static void main(String[ ] args)
{
    System.out.print("Hello world");
}
```

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Java **keywords**

public static void main(String[ ] args)
{
    System.out.print(**"Hello world"**)**;**
}

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all **lowercase**

```
public static void main(String[ ] args)
{
    System.out.print("Hello world");
}
```

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> **Java's way of marking the beginning...**

```
public static void main(String[ ] args)
{
    System.out.print("Hello world");
}
```

public static void main(String[ ] args)
{

    System.out.print("Hello world");

}

.. and end of a block of code.

```
public static void main(String[ ] args)
{
    System.out.print("Hello world");
}
```

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```java
public static void main(String[ ] args)
{
    System.out.print("Hello world");

}
```

Hello.java

```java
public class Hello
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```

Hello.java

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> **Class name must match...**

```java
public class Hello
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```

Hello.java

```java
public class Hello
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```
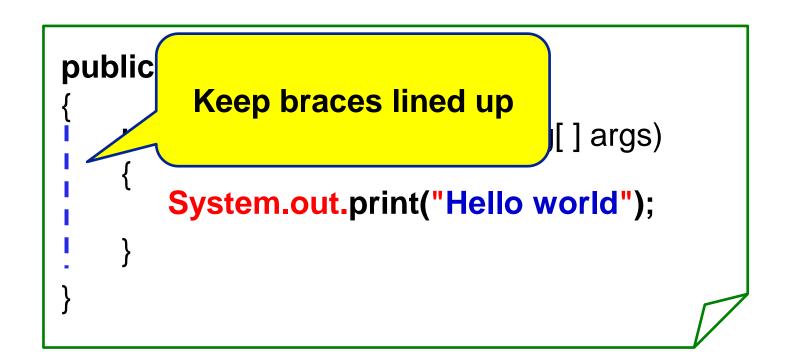
File name.

Hello.java

These file/class names **cannot have spaces** in them!

```java
public class Hello
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```

Hello.java

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```java
public class Hello
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```

Try and keep your code looking neat

Hello.java

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Hello.java

An alternative style

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

    }   System.out.print("Hello world");

}
```

Hello.java

```
public

{
                                        [ ] args)
        {
            System.out.print("Hello world");
        }
}
```

I prefer to keep braces lined up

Hello.java

Hello.java

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```java
public class Hello
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```

Use the tab key to indent instructions inside braces
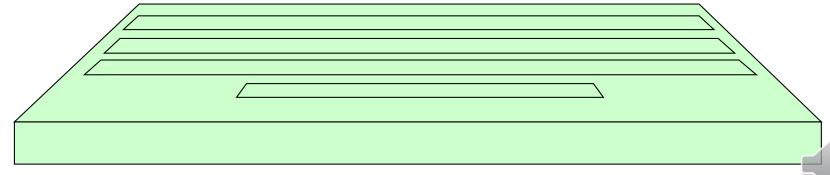
Hello.java

```
public class Hello
{
   → public static void main(String[ ] args)
   {
                              world");
   }
}
```

Use the tab key to indent instructions inside brackets

Hello.java

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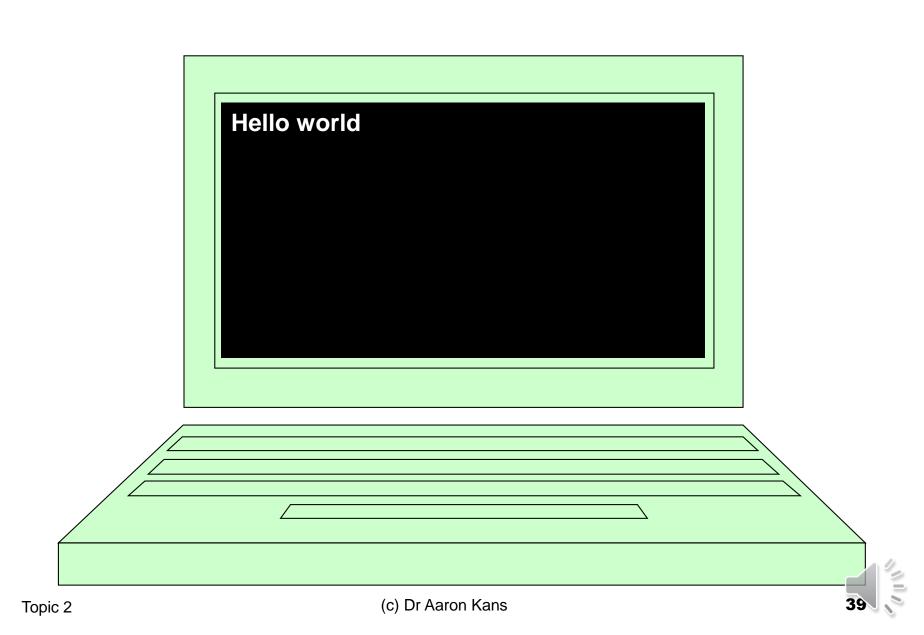
```java
public class Hello
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```

Hello.java

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```java
public class Hello
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```

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Hello world

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Activity

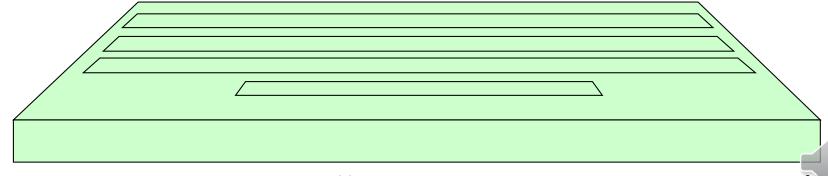**"Can you spot the syntax errors in the following program?"**

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```
public class My Team
{
    public Static void main(String[ ] args)
    {
        System.out.print("Liverpool")


}
```

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```
public class My Team
{
    public Static void main(String[ ] args)
    {
        System.out.print("Liverpool")


    }
```

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```
public class My Team
{
    public Static void main(String[ ] args)
    {
         System.out.print("Liverpool")


}
```

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```
public class MyTeam
{
    public Static void main(String[ ] args)
    {
        System.out.print("Liverpool")


}
```

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```
public class MyTeam
{
    public Static void main(String[ ] args)
    {
        System.out.print("Liverpool")


}
```

```
public class MyTeam
{
    public Static void main(String[ ] args)
    {
        System.out.print("Liverpool")


}
```

```java
public class MyTeam
{
    public static void main(String[ ] args)
    {
        System.out.print("Liverpool")


}
```

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```
public class MyTeam
{
    public static void main(String[ ] args)
    {
        System.out.print("Liverpool")


    }
}
```

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```java
public class MyTeam
{
    public static void main(String[ ] args)
    {
        System.out.print("Liverpool") ;


    }
}
```

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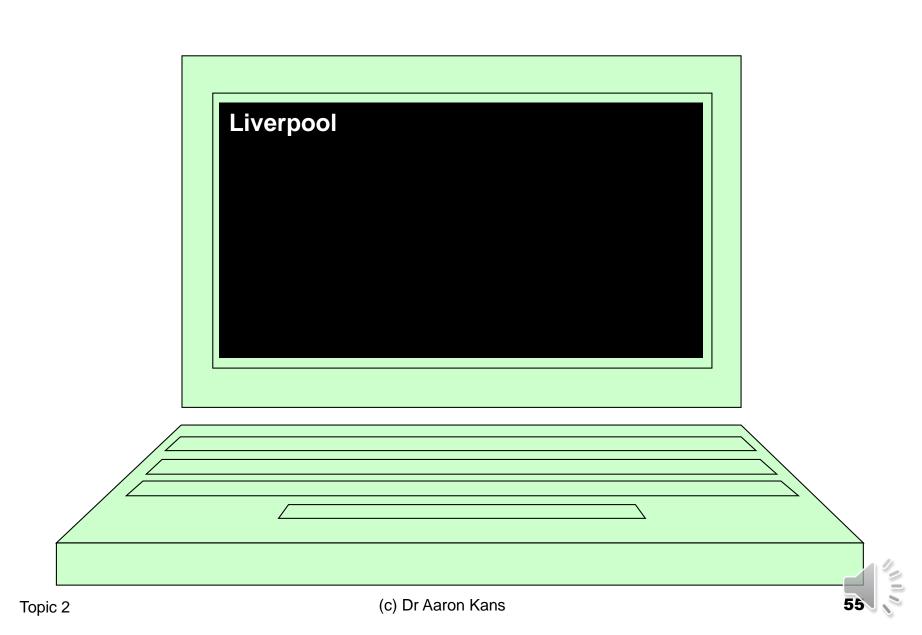
```java
public class MyTeam
{
    public static void main(String[ ] args)
    {
        System.out.print("Liverpool") ;


    }
```

```
public class MyTeam
{
    public static void main(String[ ] args)
    {
        System.out.print("Liverpool") ;


    }
```

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```java
public class MyTeam
{
    public static void main(String[ ] args)
    {
        System.out.print("Liverpool") ;

    }

}
```

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```java
public class MyTeam
{
    public static void main(String[ ] args)
    {
        System.out.print("Liverpool") ;

    }
}
```

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```java
public class MyTeam
{
    public static void main(String[ ] args)
    {
        System.out.print("Liverpool") ;
    }
}
```

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Liverpool

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print vs println

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```java
public class Hello
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```

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```java
public class HelloBye
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
    }
}
```

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```java
public class HelloBye
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
        System.out.print("Bye world");
    }
}
```

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Hello worldBye World

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```
public class HelloBye
{
    public static void main(String[ ] args)
    {
        System.out.print("Hello world");
        System.out.print("Bye world");
    }
}
```

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```java
public class HelloBye
{
    public static void main(String[ ] args)
    {
        System.out.println("Hello world");
        System.out.print("Bye world");
    }
}
```

Hello world

Bye world

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