Printing "Hello"

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

- Save the above file as Main.java.
- Compile it using javac Main.java command.
- Execute it using Main command.

```
Output: Hello
```

Compilation flow

• Main.java (Source code) → Compiler → Main.class (Bytecode)

Runtime flow

• Class file → Classloader → Bytecode verifier → Interpreter → Runtime → Hardware

Parameters used in the above code

- class
 - Used to declare a class in Java.
- public
 - Access modifier that represents visibility.
- static
 - o Keyword used to declare static variables and methods.
- void
 - Return type of method
- main
 - Starting point of the program
- System.out.println()
 - Method used to print something on the console.

Valid Java main() method signatures

```
public static void main(String[] args)
public static void main(String []args)
public static void main(String args[])
public static void main(String... args)
static public void main(String[] args)
public static final void main(String[] args)
```

```
final public static void main(String[] args)
final strictfp public static void main(String[] args)
```

Invalid Java main() method signatures

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

Note:

• Having a semicolon at the end of the class is optional.

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

Interview Questions

Can you save a Java source file by another name than the class name?

• Yes, if the class in not public.

Can you have multiple classes in a Java source file?

• Yes.

