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why main method is public static void in java

Example 2

```
class Test
{
    static
    {
        System.out.println("static block");
        System.exit(0);
    }
}
```

Page 1 of 2

Explain about public static void main(String[] args); (PART- III)

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why main method is public static void in java

Case 2:

From 1.7 version onwards to run a java program main method is mandatory. Hence, even though class contains static blocks they wont be executed if the class doesn't contain main() method.

Example 1

```
class Test
{
    static
    {
        System.out.println("static block");
    }
}
```

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Explain about public static void main(String[] args); (PART- III)

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why main method is public static void in java

Case 1:

Until 1.6 version if the class doesn't contain main() method then we will get runtime exception saying no such method error. But from 1.7 version onwards instead of NoSuchMethodError we will get more meaningful error information.

```
class Test
{ }
```

1.6 version	1.7 version
javac Test.java	javac Test.java
java Test	java Test
RE: NoSuchMethodError: main	Error: Main method not found in class test, please define main method as public static void main(String[] args)

2:31 / 15:42

▶ ▶ 🔍

Explain about public static void main(String[] args); (PART- III)

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why main method is public static void in java



Note:

*. For main method inheritance and overloading concepts are applicable but overriding concept is not applicable instead of overriding method hiding concept is applicable.

Explain about public static void main(String[] args); (PART- II)

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why main method is public static void in java

javac p.java

```
graph TD; javac[p.java] --> Pclass[P.class]; javac --> Cclass[C.class]
```

java P
output: parent main

java C
output: child main

Explain about public static void main(String[] args); (PART- II)

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Case 3

It seems overriding concept applicable for main method but it is not overriding
it is method hiding.

It is method hiding
but not
overriding

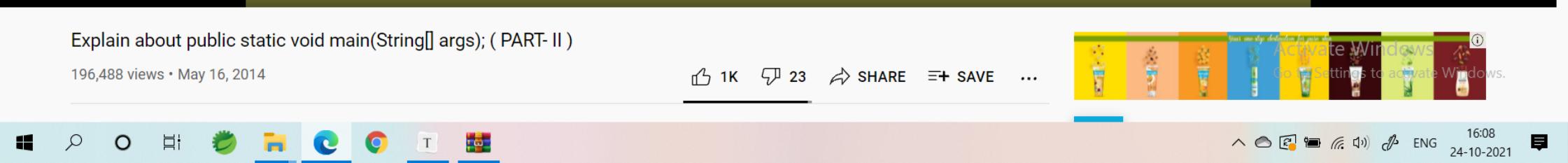
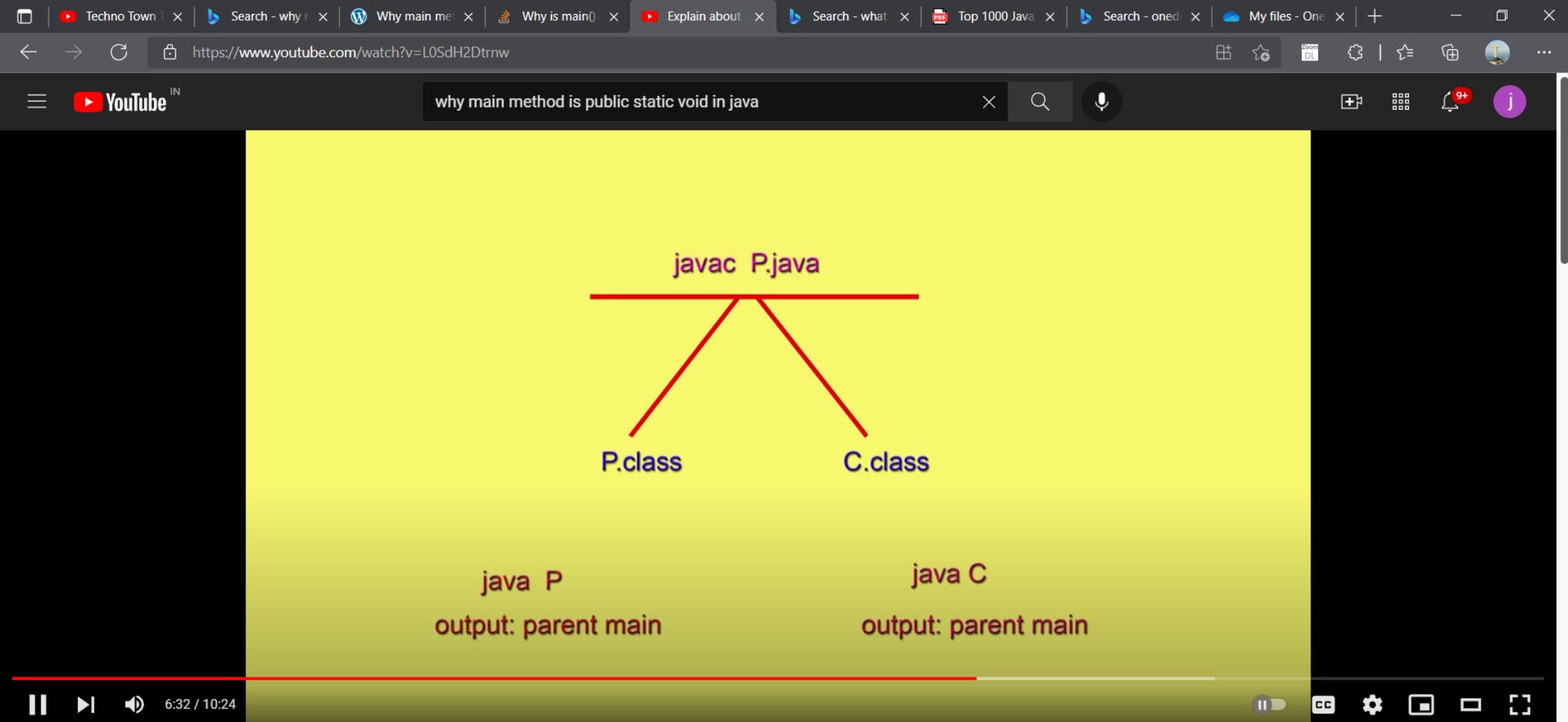
```
class p
{
    public static void main(String[] args)
    {
        System.out.println("parent main");
    }
}
class c extends p
{
    public static void main(String[] args)
    {
        System.out.println("child main");
    }
}
```

Explain about public static void main(String[] args); (PART- II)

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why main method is public static void in java

Case 2

1. Inheritance concept applicable for the main method. Hence while executing child class if child class doesn't contain main method then parent class main method will be executed.

P.java {

```
class P
{
    public static void main(String[] args)
    {
        System.out.println("parent main");
    }
}
class C extends P
{}
```

6:12 / 10:24

▶ ▶ 🔍 6:12 / 10:24

Explain about public static void main(String[] args); (PART- II)

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why main method is public static void in java

Case 1

- * Overloading of the main method is possible but JVM will always call String[] argument main method only.
- * The other overloaded method we have to call explicitly then it will be executed just a normal method call.

overloaded methods {

```
class Test
{
    public static void main(String[] args)
    {
        System.out.println("String[]");
    }
    overloaded methods
    public static void main(int[] args)
    {
        System.out.println("int[]");
    }
}
```

output: String[]

Explain about public static void main(String[] args); (PART- II)

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why main method is public static void in java



which of the following are valid main method declarations?

1. **public static void main(String[] args)**
2. **public static int main(String[] args)**
3. **public static void main(String args)**
4. **public final synchronized strictfp void main(String[] args)**
5. **public static final synchronized strictfp void main(String[] args)**
6. **public static void main(String... args)**

23:45 / 28:13



Explain about public static void main(String[] args); (PART- I)

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Explain about :
public static void main()
PART - II
(Overloading, Inheritance, overriding & method hiding)
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System.out.println();
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- JAVA PROGRAMMING



why main method is public static void in java



class Test

```
{  
    final static synchronized strictfp public void main(string... durga)  
    {  
        sopen("void main");  
    }  
}
```

javac Test.java

java Test

output: void main

22:51 / 28:13



Explain about public static void main(String[] args); (PART- I)

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Explain about System.out.println();

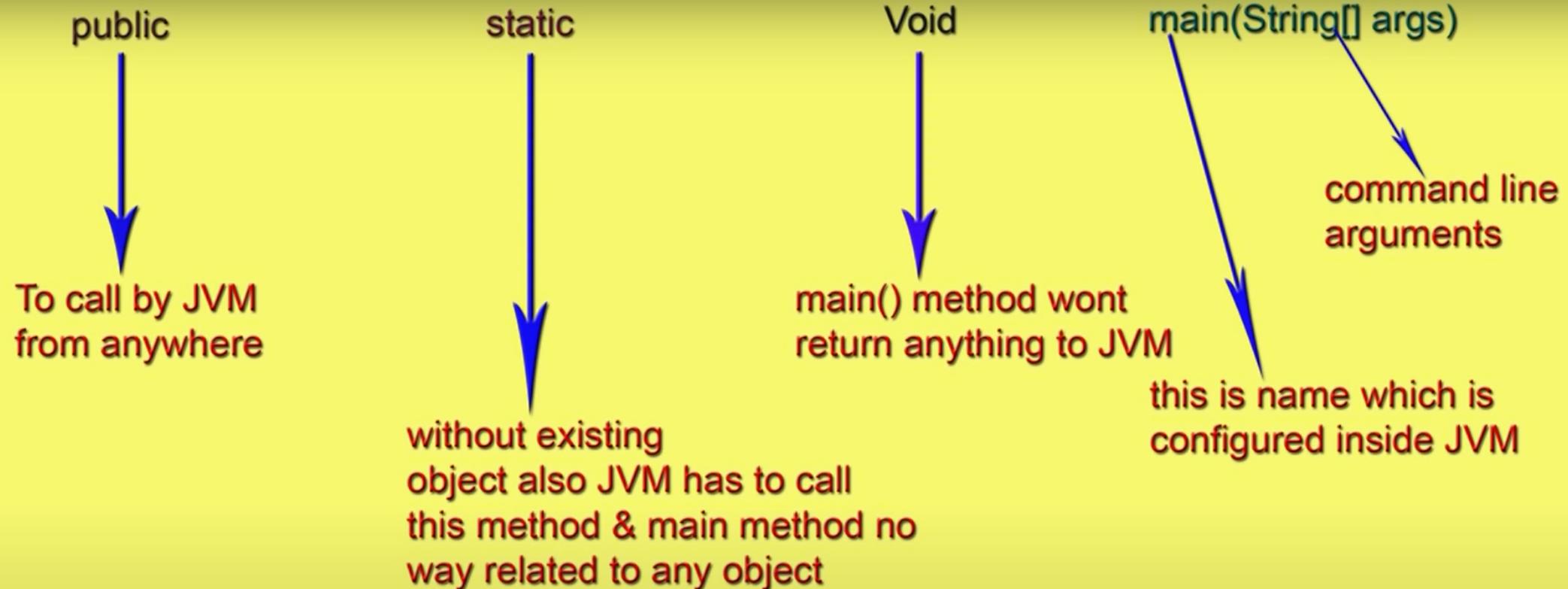
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Explain about public static void main(String[] args); (PART- I)



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