

case-1:

overloaded methods

```
m1(int x,float f)
m1(double d)
```

Same signature or name

But different args

Overloaded main method

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

This will give compile time error

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

This will run fine

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

Inherited main method works fine

```
1 class P
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("Parent Main");
6     }
7 }
8 class C extends P
9 {
10 }
11
```

method hiding concept works here

```
1 class P
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("Parent Main");
6     }
7 }
8 class C extends P
9 {
10     public static void main(String[] args)
11     {
12         System.out.println("Child Main");
13     }
14 }
15
```

1.7 version enhancements for the main method:

```
javac Test.java
java Test
Error: Main method not defined in class Test, please define main method as
public static void main(String[] args)
```

```
javac Test.java
java Test
RE: NoSuchMethodError:main
```

But before 1.7

first static block will execute and then jvm will search for main ==> 1.6

1.7 JVM ==>

First check for the main

