

Program 7 Develop a program for implementation of
a) method overriding.
b) method overloading.

Method overriding:

CODE:

```
class Base{
    void meth1(){
        System.out.println("Base class method");
    }
}

class Method_overriding extends Base{

    void meth1(){
        System.out.println("Derived class method");
    }
    public static void main(String[] args) {
        Method_overriding obj = new Method_overriding();
        obj.meth1();
    }
}
```

OUTPUT:

D:\>cd java

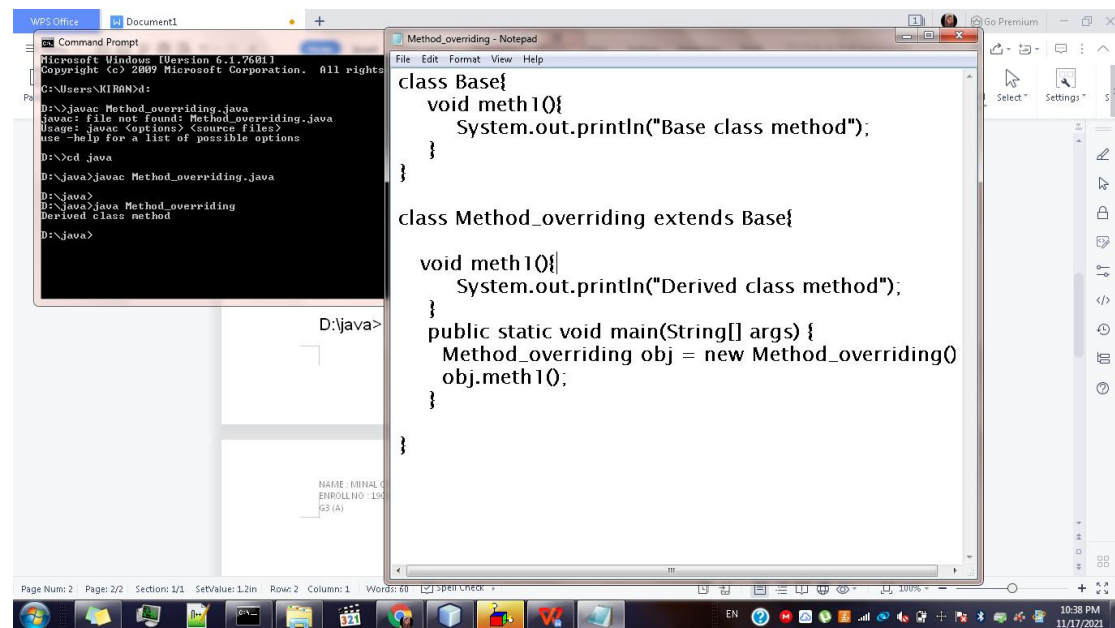
D:\java>javac Method_overriding.java

D:\java>

D:\java>java Method_overriding
Derived class method

D:\java>

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G3 (A)



The screenshot shows a Windows desktop environment. In the foreground, a Notepad window titled 'Method_overriding - Notepad' contains the following Java code:

```
class Base{
    void meth1(){
        System.out.println("Base class method");
    }
}

class Method_overriding extends Base{

    void meth1(){
        System.out.println("Derived class method");
    }

    public static void main(String[] args) {
        Method_overriding obj = new Method_overriding()
        obj.meth1();
    }
}
```

In the background, a Command Prompt window shows the following commands and output:

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\NIRMAL>
D:\>cd java
D:\>javac Method_overriding.java
D:\>java
D:\>java Method_overriding
Derived class method
D:\>
```

The taskbar at the bottom shows the system clock as 10:38 PM on 11/17/2021.

Method overloading:

CODE:

```
class Overload{
    void test(){
        System.out.println("No Parameter");
    }
    void test(int a){
        System.out.println("Overloading with 1 parameter : "+
a);
    }
    void test(int a, int b){
        System.out.println("Overloading with 2 parameters
first: "+ a+ " second: "+ b);
    }
    double test(double a, double b){
        return (a+b);
    }
}
```

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G3 (A)

```
public class Method_overloading {  
  
    public static void main(String[] args) {  
        Overload obj = new Overload();  
        obj.test();  
        obj.test(20);  
        obj.test(20, 30);  
        double result = obj.test(10.0, 20.0);  
        System.out.println("Addition: "+result);  
    }  
}
```

OUTPUT:

D:\java>javac Method_overloading.java

D:\java>java Method_overloading

No Parameter

Overloading with 1 parameter : 20

Overloading with 2 parameters first: 20 second: 30

Addition: 30.0

